

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P456103

Luminaire Tested: **GALN-SA7B-750-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39546 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

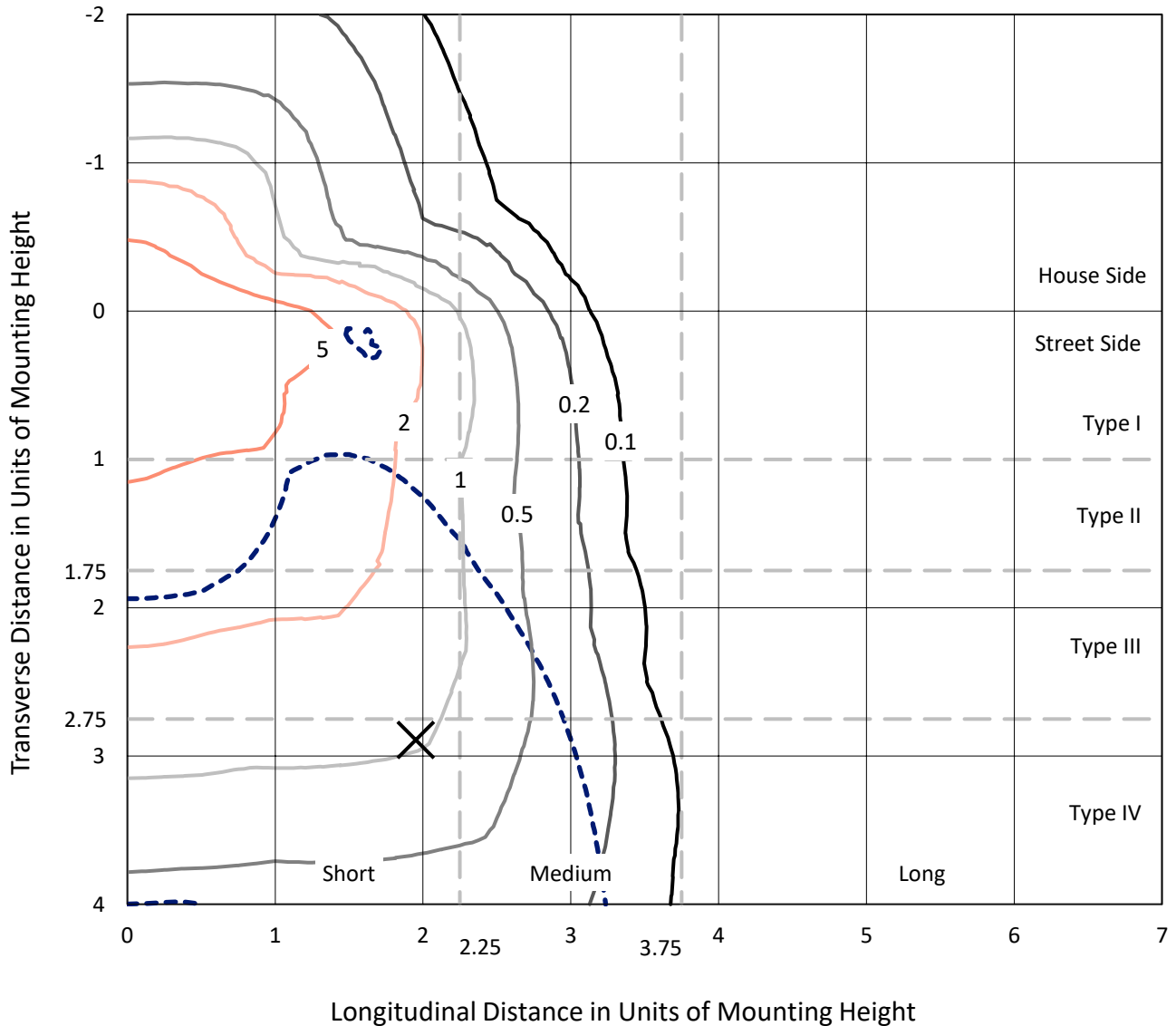
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

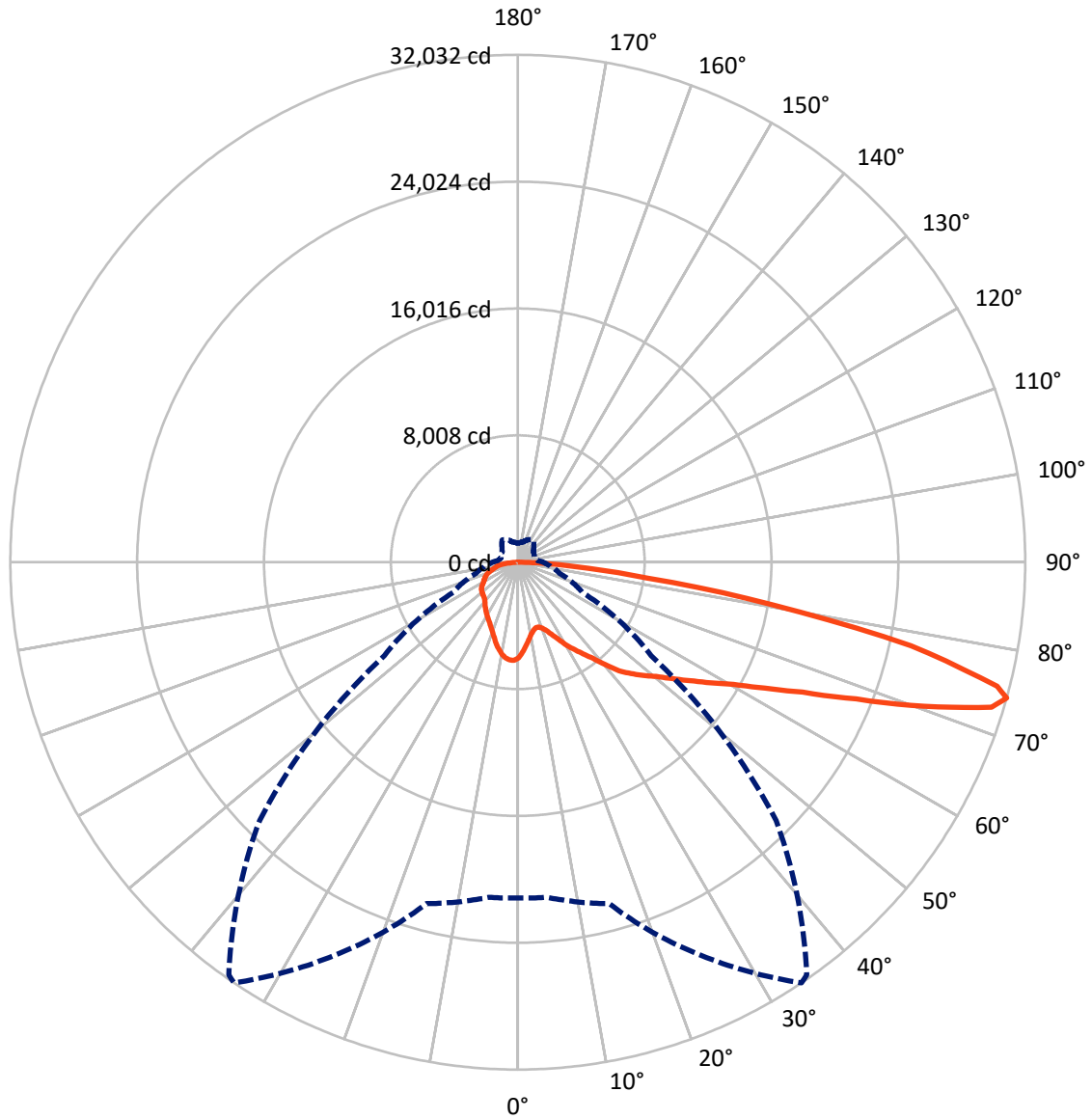
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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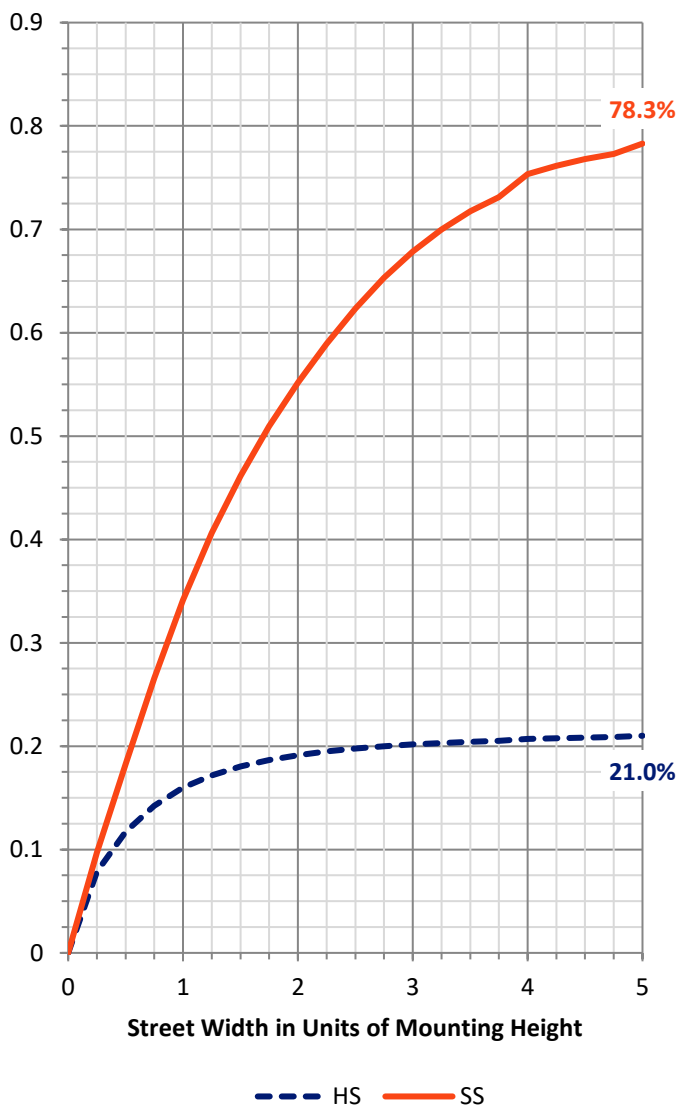
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8415.7	0.0	8415.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	31130.3	0.0	31130.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	39546.0	0.0	39546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.1	1.4
10°-20°	1503.2	3.8
20°-30°	2478.4	6.3
30°-40°	3712.3	9.4
40°-50°	5396.7	13.6
50°-60°	7537.9	19.1
60°-70°	9437.1	23.9
70°-80°	7803.7	19.7
80°-90°	1127.6	2.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39546.0	100.0
0°-180°	39546.0	100.0

Coefficient of Utilization



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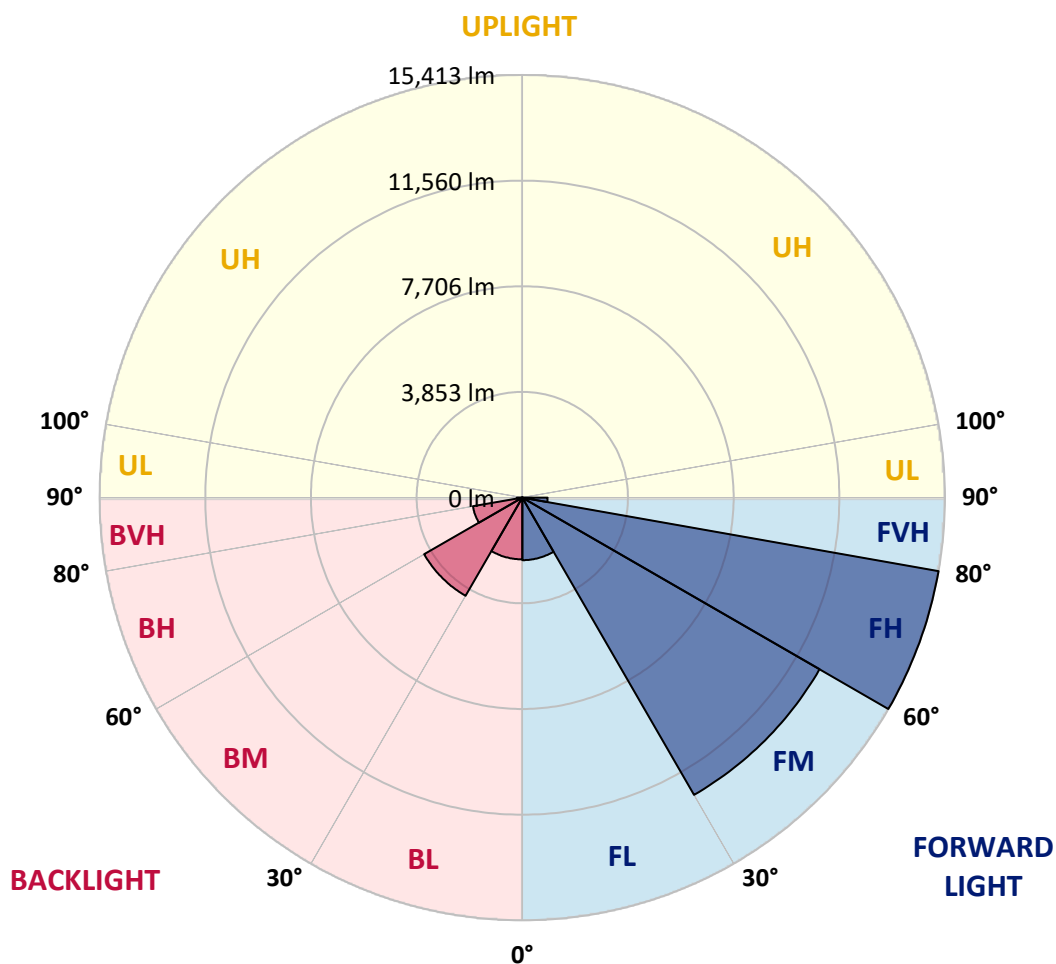
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2279.6	5.8			
FM	(30°-60°)	12514.0	31.6			
FH	(60°-80°)	15412.9	39.0			G5
FVH	(80°-90°)	923.8	2.3			G5
BL	(0°-30°)	2251.1	5.7	B3/2500		
BM	(30°-60°)	4133.0	10.5	B3/5000		
BH	(60°-80°)	1827.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	203.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6037.9	6037.9	6037.9	6037.9	6037.9	6037.9	6037.9	6037.9	6037.9	6037.9	6037.9
2.5°	5580.0	5608.5	5623.8	5678.6	5691.7	5709.3	5755.3	5816.6	5895.5	5965.6	6026.9
5°	5115.6	5159.4	5185.7	5233.9	5328.1	5336.8	5459.5	5599.7	5759.7	5908.6	6031.3
7.5°	4675.2	4723.4	4745.3	4832.9	4957.8	4977.5	5157.2	5378.5	5645.7	5871.4	6059.8
10°	4344.4	4368.5	4416.7	4482.4	4631.4	4644.5	4878.9	5174.7	5520.9	5853.9	6108.0
12.5°	4164.7	4177.9	4188.8	4258.9	4405.7	4425.5	4670.8	5006.0	5422.3	5867.0	6186.9
15°	4191.0	4195.4	4147.2	4160.4	4278.7	4307.1	4550.3	4894.3	5360.9	5899.9	6305.2
17.5°	4412.3	4397.0	4278.7	4217.3	4300.6	4313.7	4526.2	4850.5	5332.4	5961.2	6427.9
20°	4760.6	4738.7	4535.0	4399.2	4447.4	4458.3	4605.1	4883.3	5360.9	6062.0	6618.5
22.5°	5194.4	5185.7	4876.8	4712.4	4710.3	4710.3	4786.9	5001.6	5446.4	6200.0	6817.8
25°	5801.3	5755.3	5352.2	5139.7	5080.5	5076.1	5067.4	5196.6	5555.9	6346.8	7054.4
27.5°	6423.5	6344.6	5985.3	5658.9	5531.8	5516.5	5459.5	5472.7	5696.1	6513.3	7323.9
30°	6982.1	6931.7	6594.4	6232.9	6081.7	6046.7	5888.9	5816.6	5930.5	6813.4	7753.3
32.5°	7409.3	7378.7	7115.8	6787.2	6563.7	6557.1	6327.1	6267.9	6296.4	7177.1	8244.0
35°	7755.5	7766.4	7632.8	7348.0	7091.7	7054.4	6901.1	6826.6	6743.3	7702.9	8861.9
37.5°	8228.7	8252.8	8244.0	7998.7	7685.4	7694.1	7659.1	7536.4	7315.1	8290.1	9547.6
40°	8750.1	8767.7	8765.5	8671.3	8506.9	8515.7	8502.6	8362.3	8031.5	9037.1	10310.0
42.5°	9470.9	9387.7	9170.8	9265.0	9361.4	9403.0	9492.8	9359.2	8905.7	9834.6	11026.4
45°	10277.1	10119.4	9628.6	9672.5	10029.6	10108.4	10603.6	10419.5	9854.3	10750.3	11869.8
47.5°	10785.4	10629.8	10215.8	10207.0	10680.2	10756.9	11633.2	11565.3	10717.5	11738.4	12899.5
50°	11238.9	11217.0	10750.3	10862.1	11324.3	11438.3	12754.9	12691.4	11578.5	12903.9	14021.2
52.5°	11911.5	11734.0	11361.6	11591.6	12202.9	12351.8	13867.9	13681.7	12369.4	13933.6	15110.1
55°	12213.8	12172.2	12150.3	12349.6	13188.7	13296.1	14950.1	14522.9	13044.1	14805.5	15938.2
57.5°	13022.2	12945.5	13162.4	13298.3	14349.9	14514.2	16080.6	15401.4	13635.6	15497.8	16341.3
60°	14069.4	14027.8	14227.2	14472.5	15646.8	15896.6	17368.8	16150.7	14111.1	15846.2	16120.0
62.5°	15633.7	15629.3	15592.0	16117.8	17484.9	17714.9	18847.6	16880.2	14185.5	15585.5	14976.4
65°	17877.1	17798.2	17474.0	18048.0	19772.1	20041.6	20387.7	17287.7	13736.4	14246.9	12610.3
67.5°	20223.4	20219.1	19956.2	20701.0	23056.2	23334.4	22313.5	17197.9	12489.8	11541.2	8956.1
70°	22168.9	22074.7	22409.9	24394.7	27251.6	27573.6	23998.2	16139.7	9948.5	7621.9	5321.5
72.5°	22635.5	22639.9	23336.6	27242.8	31280.5	31330.9	24605.1	13081.4	6657.9	4204.2	2661.8
74°	21198.3	21235.6	22315.7	27385.2	32031.9	31804.1	23054.0	10281.5	4502.1	2745.1	1919.2
75°	19349.3	19114.9	20676.9	26436.6	31252.0	31006.6	21237.8	8250.6	3435.2	2193.0	1680.4
77.5°	10345.0	10583.8	12993.7	19728.3	25389.4	25106.8	14400.2	3956.6	1855.6	1527.0	1209.3
80°	3682.8	4061.8	5709.3	10323.1	16277.8	16365.4	6872.6	1814.0	1305.7	1126.1	854.4
82.5°	1502.9	1544.5	2451.5	4581.0	8266.0	8344.8	2806.4	1077.9	933.3	775.5	510.5
85°	587.1	604.7	1084.5	2059.4	3527.2	3757.3	970.5	569.6	574.0	444.7	260.7
87.5°	197.2	223.5	444.7	685.7	1198.4	1174.3	282.6	168.7	205.9	192.8	81.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6037.9	6037.9	6037.9	6037.9	6037.9	6037.9	6037.9	6037.9	6037.9	6037.9	6037.9
2.5°	6057.6	6099.2	6127.7	6158.4	6186.9	6195.6	6189.1	6208.8	6211.0	6213.2	6215.3
5°	6092.7	6149.6	6204.4	6235.1	6248.2	6237.3	6200.0	6180.3	6162.8	6149.6	6154.0
7.5°	6140.9	6221.9	6272.3	6285.5	6250.4	6200.0	6108.0	6035.7	5989.7	5959.0	5956.8
10°	6215.3	6294.2	6335.8	6298.6	6202.2	6079.5	5934.9	5799.1	5696.1	5665.5	5663.3
12.5°	6309.6	6399.4	6397.2	6287.6	6119.0	5899.9	5665.5	5507.7	5367.5	5297.4	5325.9
15°	6432.2	6500.2	6436.6	6239.4	5972.2	5672.0	5382.8	5168.1	5010.4	4935.9	4940.3
17.5°	6574.6	6633.8	6465.1	6154.0	5766.2	5380.6	5045.5	4841.7	4716.8	4662.1	4657.7
20°	6752.1	6769.6	6465.1	6005.0	5501.1	5041.1	4721.2	4578.8	4508.7	4480.2	4489.0
22.5°	6942.7	6907.6	6430.0	5794.7	5152.8	4686.2	4471.5	4407.9	4372.9	4368.5	4372.9
25°	7157.4	7058.8	6357.8	5509.9	4789.1	4379.4	4254.6	4265.5	4272.1	4272.1	4287.4
27.5°	7420.3	7223.1	6237.3	5150.6	4364.1	4094.6	4059.6	4136.3	4171.3	4177.9	4188.8
30°	7766.4	7402.8	6037.9	4701.5	4002.6	3838.3	3899.7	4002.6	4042.1	4066.2	4061.8
32.5°	8178.3	7599.9	5768.4	4252.4	3711.2	3658.7	3733.2	3838.3	3882.1	3895.3	3877.7
35°	8662.5	7823.4	5413.5	3831.7	3457.1	3487.8	3575.4	3608.3	3647.7	3647.7	3656.5
37.5°	9183.9	8003.1	4979.7	3446.2	3259.9	3371.7	3435.2	3404.5	3387.0	3365.1	3376.0
40°	9714.1	8136.7	4416.7	3065.0	3062.8	3251.2	3268.7	3181.1	3111.0	3089.1	3078.1
42.5°	10176.3	8219.9	3908.4	2769.2	2876.5	3132.9	3146.0	3005.8	2894.1	2828.3	2806.4
45°	10721.9	8316.3	3411.1	2523.8	2703.5	3038.7	3071.5	2883.1	2718.8	2580.8	2545.7
47.5°	11468.9	8535.4	3018.9	2333.2	2578.6	2979.5	3025.5	2782.3	2565.4	2385.8	2357.3
50°	12312.4	8835.6	2714.4	2204.0	2482.2	2926.9	2983.9	2679.4	2423.0	2223.7	2201.8
52.5°	13085.8	8997.7	2451.5	2087.8	2388.0	2830.5	2929.1	2604.9	2282.8	2061.6	2041.8
55°	13508.6	8734.8	2193.0	1973.9	2258.7	2705.7	2852.4	2501.9	2147.0	1976.1	1947.6
57.5°	13565.5	8191.5	1958.6	1851.2	2122.9	2552.3	2710.0	2377.0	2059.4	1917.0	1892.9
60°	13125.2	7380.9	1776.8	1750.5	1984.9	2379.2	2550.1	2267.5	1969.5	1851.2	1827.1
62.5°	12029.8	6500.2	1649.7	1658.4	1844.7	2197.4	2431.8	2162.3	1884.1	1778.9	1757.0
65°	10145.7	5365.3	1527.0	1564.2	1719.8	2055.0	2324.5	2074.7	1798.7	1724.2	1704.5
67.5°	7047.9	3873.4	1426.2	1465.7	1601.5	1910.4	2199.6	1980.5	1702.3	1662.8	1632.2
70°	3901.8	2383.6	1307.9	1353.9	1478.8	1748.3	2059.4	1838.1	1562.1	1544.5	1500.7
72.5°	2050.6	1518.2	1174.3	1224.7	1312.3	1540.1	1844.7	1682.5	1424.0	1349.5	1292.6
74°	1601.5	1244.4	1084.5	1137.0	1196.2	1417.5	1717.6	1570.8	1325.4	1237.8	1194.0
75°	1395.6	1108.6	1007.8	1075.7	1128.3	1334.2	1619.0	1491.9	1270.7	1187.4	1148.0
77.5°	985.9	830.3	823.7	904.8	933.3	1169.9	1459.1	1358.3	1132.7	1045.0	1007.8
80°	692.3	622.2	652.9	703.3	742.7	1034.1	1353.9	1174.3	928.9	825.9	812.8
82.5°	451.3	407.5	466.6	512.7	525.8	762.4	1093.2	891.7	677.0	549.9	510.5
85°	208.1	203.7	267.3	260.7	258.5	372.4	648.5	521.4	390.0	291.4	273.9
87.5°	52.6	50.4	65.7	54.8	65.7	57.0	59.2	15.3	2.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)