

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: P530437

Luminaire Tested: **GALN-SA5C-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20870 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 269
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

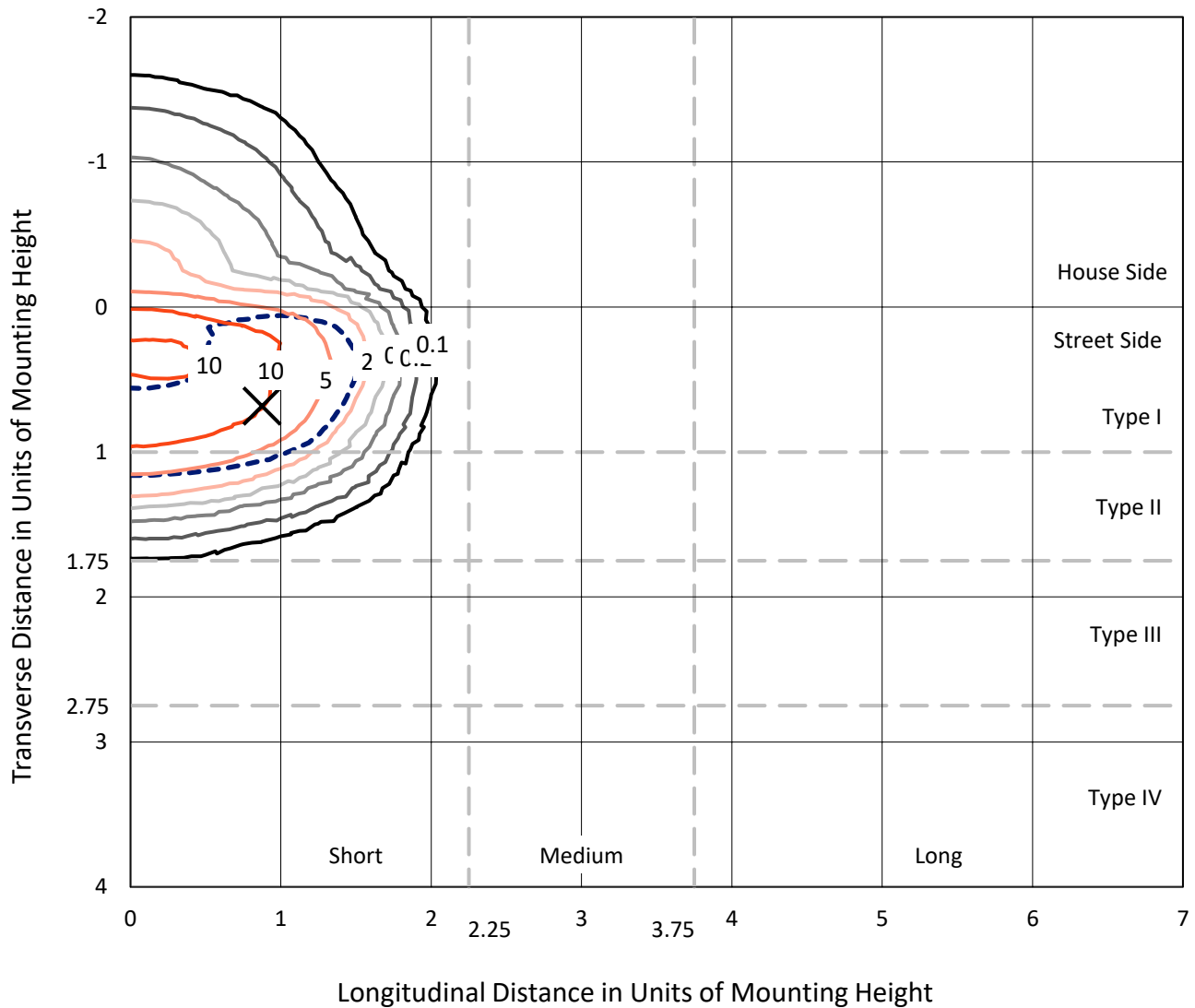


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

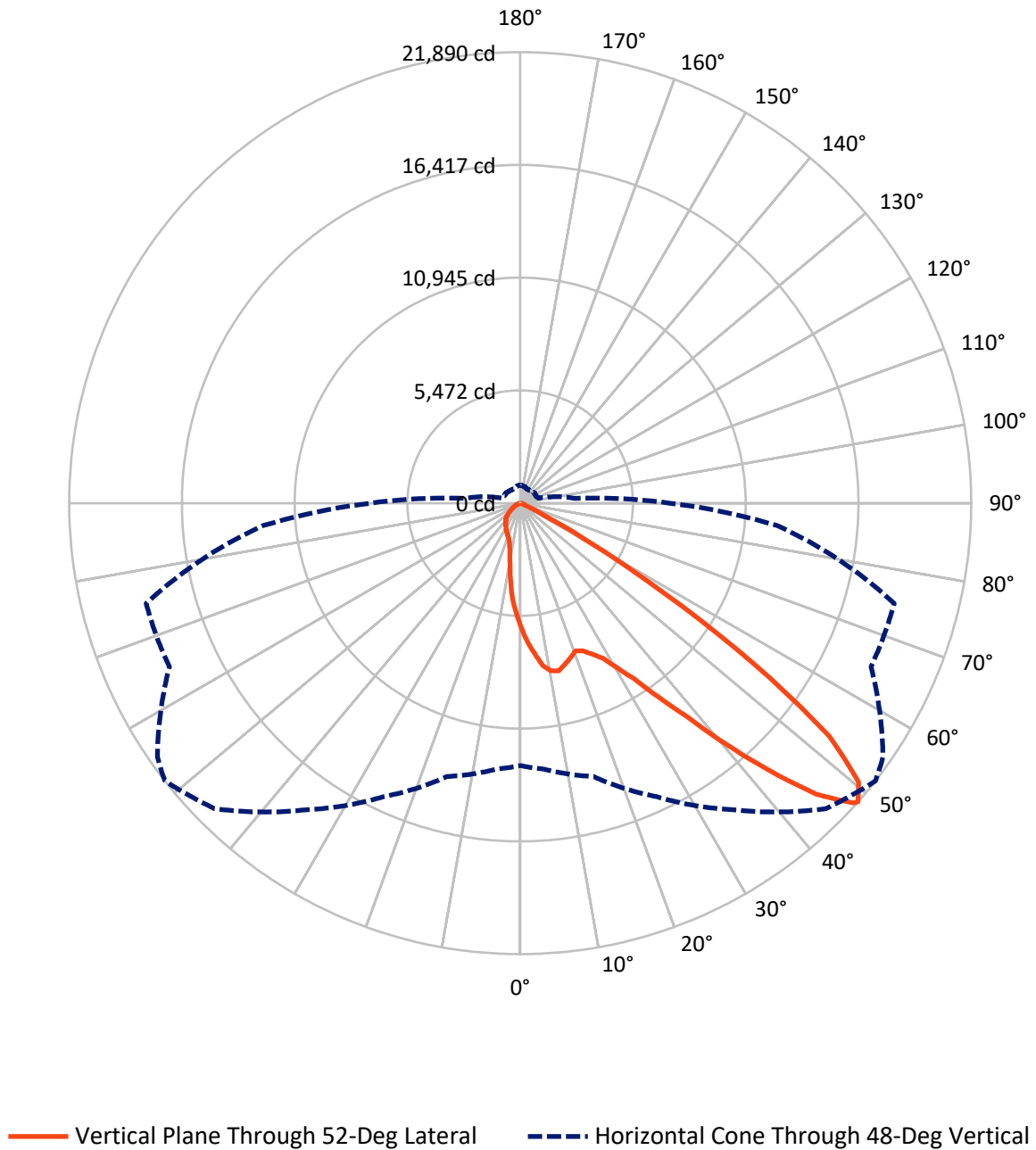


Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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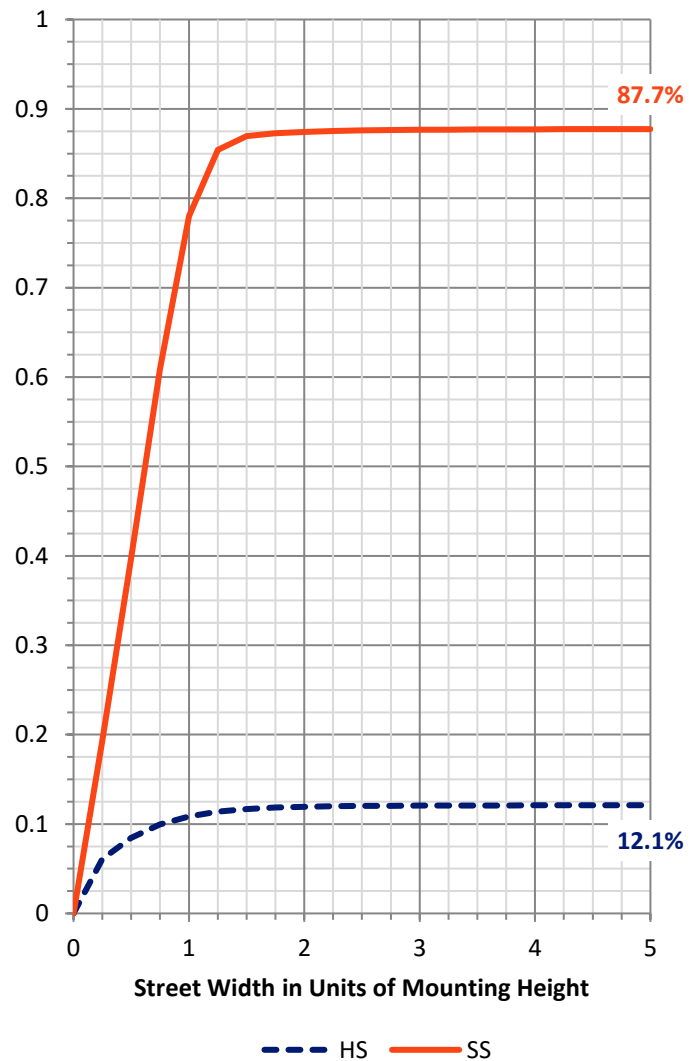
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2541.1	0.0	2541.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	18328.9	0.0	18328.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	20870.0	0.0	20870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.6	2.6
10°-20°	1441.6	6.9
20°-30°	2461.4	11.8
30°-40°	4532.7	21.7
40°-50°	7039.3	33.7
50°-60°	4236.5	20.3
60°-70°	490.0	2.3
70°-80°	94.8	0.5
80°-90°	21.9	0.1
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°	20870.0	100.0
0°-180°	20870.0	100.0

Coefficient of Utilization



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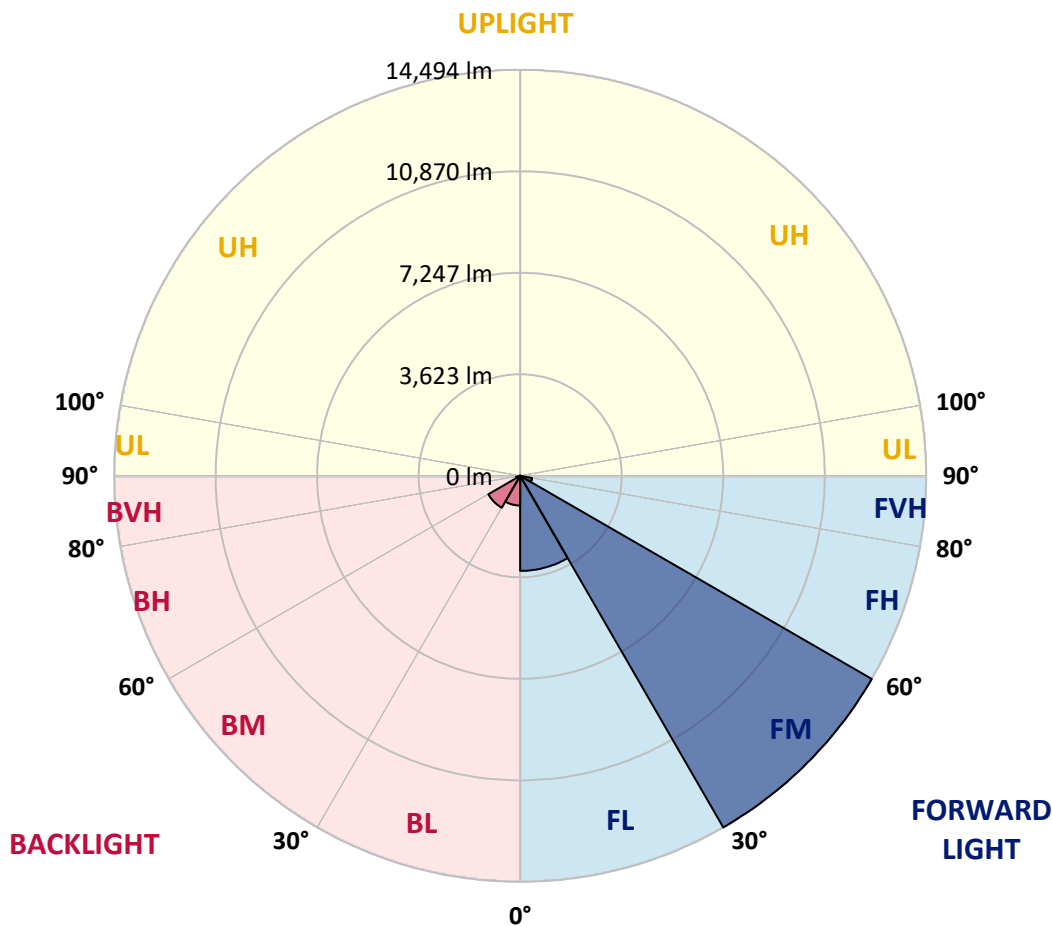
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3393.2	16.3			
FM	(30°-60°)	14493.8	69.4			
FH	(60°-80°)	431.5	2.1			G0/660
FVH	(80°-90°)	10.4	0.1			G1/100
BL	(0°-30°)	1061.5	5.1	B3/2500		
BM	(30°-60°)	1314.7	6.3	B2/2500		
BH	(60°-80°)	153.4	0.7	B1/500		G1/500
BVH	(80°-90°)	11.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6026.9	6026.9	6026.9	6026.9	6026.9	6026.9	6026.9	6026.9	6026.9	6026.9	6026.9
2.5°	7304.7	7137.4	7152.6	7043.1	6979.2	6875.7	6735.8	6708.4	6556.3	6349.4	6139.5
5°	7961.8	7922.3	7974.0	7815.8	7821.9	7651.5	7323.0	7329.0	6979.2	6641.5	6315.9
7.5°	8004.4	7913.2	7964.9	8104.8	8187.0	8156.6	7971.0	7809.7	7478.1	6982.2	6507.6
10°	7167.8	7341.2	7396.0	7627.2	7955.8	8302.6	8281.3	8290.4	8013.6	7365.5	6671.9
12.5°	6665.8	6550.2	6735.8	6875.7	7371.6	8044.0	8351.3	8418.2	8439.5	7736.7	6836.2
15°	6437.6	6437.6	6468.1	6507.6	6866.6	7487.2	8114.0	8308.7	8768.1	8223.5	7094.8
17.5°	6580.6	6574.5	6617.1	6535.0	6668.8	7146.5	7894.9	8117.0	9136.2	8701.1	7298.6
20°	7015.7	7037.0	7009.6	6772.3	6781.4	7140.4	7651.5	8001.4	9385.7	9114.9	7569.4
22.5°	7621.1	7633.3	7478.1	7219.5	7143.5	7319.9	7791.5	8059.2	9586.5	9610.8	7651.5
25°	8320.8	8272.2	8241.7	7876.7	7645.4	7797.6	8107.9	8263.0	9711.2	10036.7	7885.8
27.5°	9291.4	9194.0	9008.4	8682.9	8512.5	8296.5	8518.6	8774.2	10067.2	10633.0	8141.3
30°	10724.3	10639.1	10277.1	9857.2	9410.0	9197.0	9267.0	9407.0	10709.1	11323.7	8479.0
32.5°	12881.3	12701.8	12178.6	11378.4	10769.9	10182.8	10164.5	10313.6	11284.1	12279.0	8880.6
35°	15257.4	15202.7	14432.9	13608.5	12431.1	11524.4	11539.7	11618.8	12385.4	13532.4	9407.0
37.5°	16836.4	17137.6	16647.8	15762.5	14773.7	13477.6	13149.1	13176.4	13897.5	15017.1	10356.2
40°	18056.4	17800.8	17858.6	17651.8	16976.4	16094.1	15366.9	15224.0	15646.8	16659.9	11299.3
42.5°	17524.0	17536.1	17892.1	18381.9	18549.3	18485.4	17743.0	17472.3	17143.7	18004.7	12196.8
45°	16021.1	16334.4	16796.9	18092.9	19230.7	20298.6	20152.6	19702.3	18178.1	19069.5	12714.0
47.5°	13623.7	13611.5	14369.1	16054.5	18582.7	21083.5	21746.8	21430.4	18911.3	18950.8	12607.5
48°	12738.3	12957.4	13739.3	15722.9	18172.0	20967.9	21889.8	21491.2	18786.6	18792.6	12516.3
50°	9416.1	9376.5	10350.1	12784.0	16231.0	19702.3	21287.4	21597.7	18783.5	17992.5	11877.4
52.5°	4974.3	5144.6	5853.5	8037.9	11475.8	16124.5	18777.4	19261.2	18120.3	16684.3	10958.6
55°	2114.4	1910.6	2455.2	3629.5	6455.9	10773.0	13775.8	14852.8	15321.3	14764.6	9586.5
57.5°	754.5	824.5	949.2	1366.0	2713.8	5896.1	8214.4	9051.0	10614.8	10833.8	6531.9
60°	483.7	492.9	532.4	626.7	1019.2	2272.6	3897.3	4563.5	5272.4	5442.8	3048.4
62.5°	374.2	377.3	395.5	410.7	483.7	882.3	1463.4	1734.1	1801.1	1548.6	800.1
65°	313.4	316.4	322.5	322.5	343.8	413.8	511.1	562.8	547.6	541.5	453.3
67.5°	240.3	246.4	258.6	258.6	270.8	252.5	282.9	301.2	340.7	413.8	386.4
70°	188.6	191.7	200.8	206.9	206.9	182.5	203.8	222.1	249.5	307.3	304.2
72.5°	146.0	152.1	158.2	158.2	149.1	124.7	146.0	161.2	179.5	213.0	206.9
75°	112.6	112.6	115.6	94.3	73.0	63.9	88.2	106.5	133.9	139.9	115.6
77.5°	30.4	33.5	30.4	27.4	30.4	45.6	57.8	66.9	85.2	85.2	76.1
80°	0.0	3.0	9.1	18.3	30.4	42.6	51.7	57.8	66.9	73.0	70.0
82.5°	0.0	3.0	9.1	18.3	27.4	33.5	45.6	48.7	54.8	63.9	63.9
85°	0.0	3.0	6.1	12.2	18.3	21.3	21.3	18.3	18.3	15.2	12.2
87.5°	0.0	0.0	3.0	6.1	6.1	9.1	9.1	9.1	9.1	9.1	9.1
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°	6026.9	6026.9	6026.9	6026.9	6026.9	6026.9	6026.9	6026.9	6026.9	6026.9	6026.9
2.5°	6057.3	5963.0	5820.0	5594.9	5378.9	5238.9	5105.1	4956.0	4873.9	4867.8	4822.1
5°	6130.3	5917.4	5576.6	5190.3	4776.5	4420.5	4061.5	3827.3	3617.4	3501.8	3480.5
7.5°	6169.9	5893.0	5342.4	4694.4	3988.5	3407.4	3005.8	2710.7	2595.1	2509.9	2506.9
10°	6252.0	5850.5	4992.5	4037.2	3164.1	2576.9	2300.0	2166.2	2102.3	2077.9	2041.4
12.5°	6312.9	5771.4	4633.5	3361.8	2500.8	2135.7	2014.0	1983.6	1986.7	1998.8	1983.6
15°	6398.1	5701.4	4149.8	2759.4	2099.2	1922.8	1922.8	1928.9	1971.4	1977.5	1974.5
17.5°	6392.0	5564.5	3650.8	2272.6	1855.8	1831.5	1840.6	1898.4	1925.8	1934.9	1913.6
20°	6465.0	5436.7	3136.7	1941.0	1718.9	1755.4	1816.3	1831.5	1865.0	1871.0	1846.7
22.5°	6443.7	5117.2	2659.0	1679.4	1615.5	1685.5	1746.3	1764.6	1755.4	1737.2	1734.1
25°	6404.2	4843.4	2220.9	1506.0	1539.4	1615.5	1673.3	1639.8	1621.6	1624.6	1627.7
27.5°	6334.2	4496.6	1858.9	1384.3	1436.0	1548.6	1545.5	1533.3	1551.6	1536.4	1551.6
30°	6322.0	4149.8	1560.7	1274.7	1359.9	1442.1	1448.2	1469.5	1490.8	1463.4	1490.8
32.5°	6340.3	3769.5	1347.8	1207.8	1314.3	1317.3	1384.3	1405.6	1390.4	1329.5	1335.6
35°	6480.2	3477.4	1192.6	1171.3	1241.3	1244.3	1308.2	1280.8	1213.9	1177.4	1198.7
37.5°	6775.3	3234.0	1119.6	1137.8	1143.9	1183.5	1186.5	1131.8	1137.8	1134.8	1147.0
40°	7152.6	3048.4	1067.9	1107.4	1101.3	1128.7	1019.2	1049.6	1077.0	1086.1	1092.2
42.5°	7411.2	2914.6	1034.4	1058.7	1046.6	997.9	937.0	967.5	988.8	1022.2	1028.3
45°	7526.8	2808.1	994.9	973.6	973.6	885.3	861.0	867.1	915.7	952.3	946.2
47.5°	7338.2	2704.7	924.9	861.0	882.3	809.3	781.9	781.9	833.6	879.2	870.1
48°	7265.1	2662.1	927.9	836.6	851.9	797.1	769.7	763.6	821.4	864.0	864.0
50°	6903.1	2503.9	848.8	769.7	739.3	733.2	715.0	721.0	757.5	797.1	797.1
52.5°	6197.3	2163.1	718.0	660.2	605.4	641.9	651.1	638.9	657.1	693.7	690.6
55°	5172.0	1661.1	575.0	547.6	505.0	544.6	562.8	547.6	529.4	556.8	556.8
57.5°	3313.1	894.5	459.4	465.5	422.9	462.4	477.7	441.1	407.7	429.0	425.9
60°	1493.8	535.5	377.3	368.1	340.7	386.4	410.7	368.1	322.5	337.7	352.9
62.5°	559.8	380.3	286.0	279.9	273.8	316.4	328.6	295.1	249.5	258.6	261.6
65°	410.7	334.7	228.2	206.9	219.0	249.5	243.4	209.9	179.5	179.5	185.6
67.5°	349.9	292.1	185.6	161.2	161.2	164.3	152.1	133.9	124.7	130.8	136.9
70°	273.8	231.2	146.0	124.7	112.6	100.4	88.2	85.2	76.1	85.2	82.1
72.5°	176.5	155.2	112.6	94.3	85.2	70.0	57.8	54.8	45.6	42.6	42.6
75°	94.3	94.3	88.2	76.1	66.9	54.8	45.6	36.5	24.3	18.3	18.3
77.5°	66.9	73.0	79.1	73.0	60.8	45.6	36.5	24.3	12.2	6.1	6.1
80°	63.9	73.0	79.1	70.0	60.8	45.6	33.5	18.3	9.1	3.0	3.0
82.5°	57.8	66.9	73.0	63.9	54.8	39.6	30.4	18.3	9.1	3.0	3.0
85°	12.2	15.2	18.3	18.3	21.3	27.4	21.3	15.2	6.1	3.0	3.0
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	6.1	6.1	3.0	3.0	3.0
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)