

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: P453735

Luminaire Tested: **GALN-SA4D-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30547 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

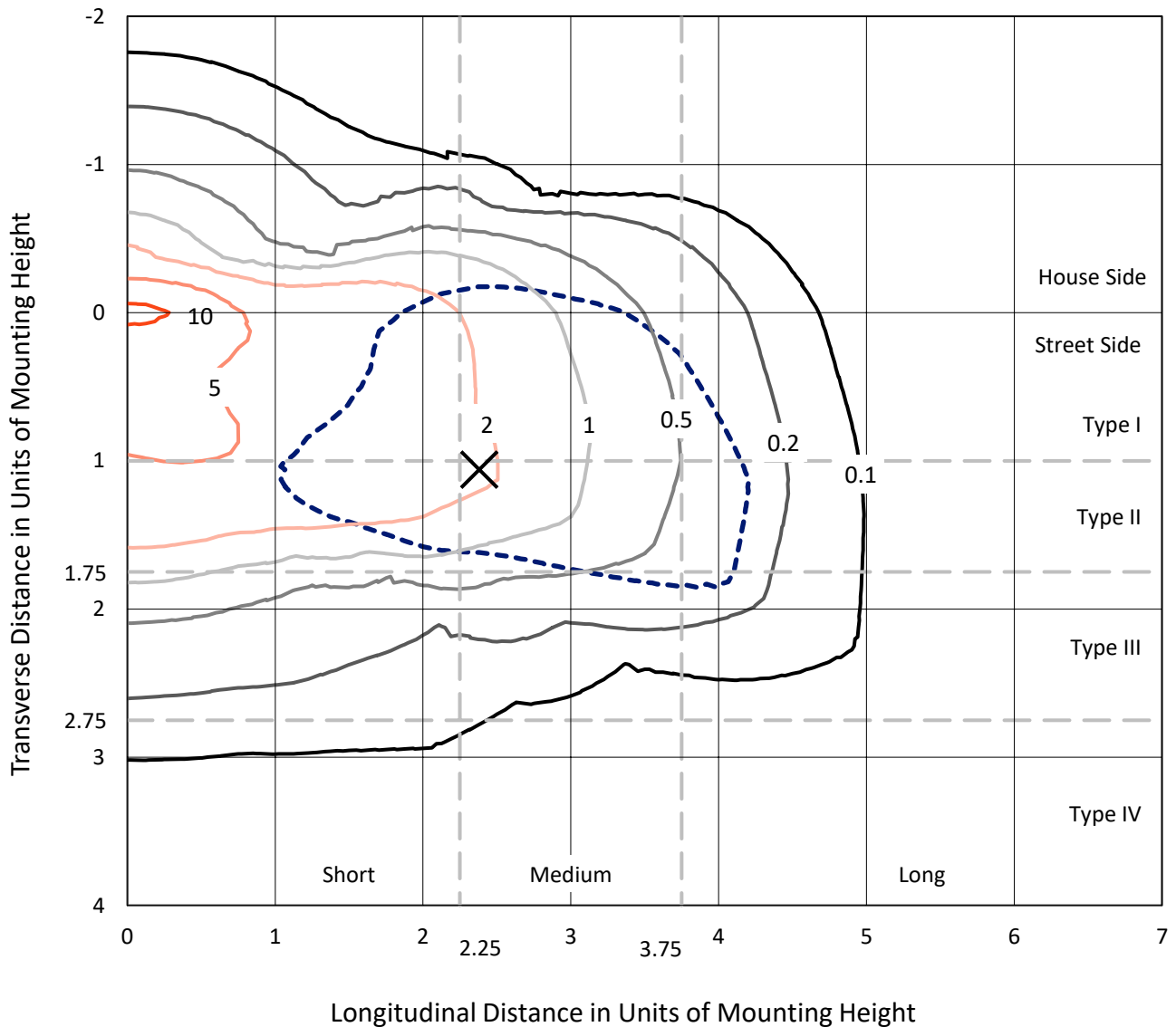
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

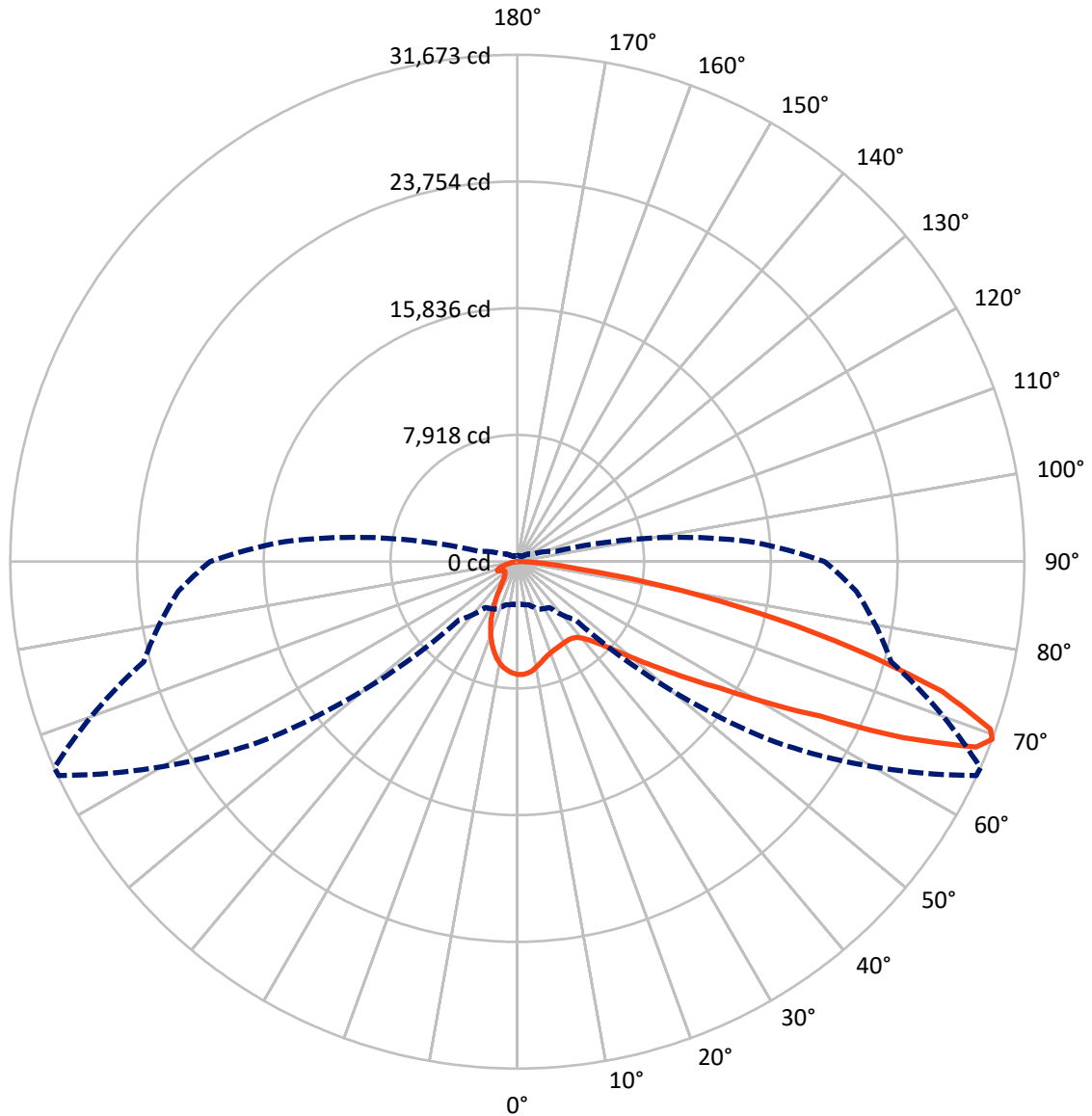
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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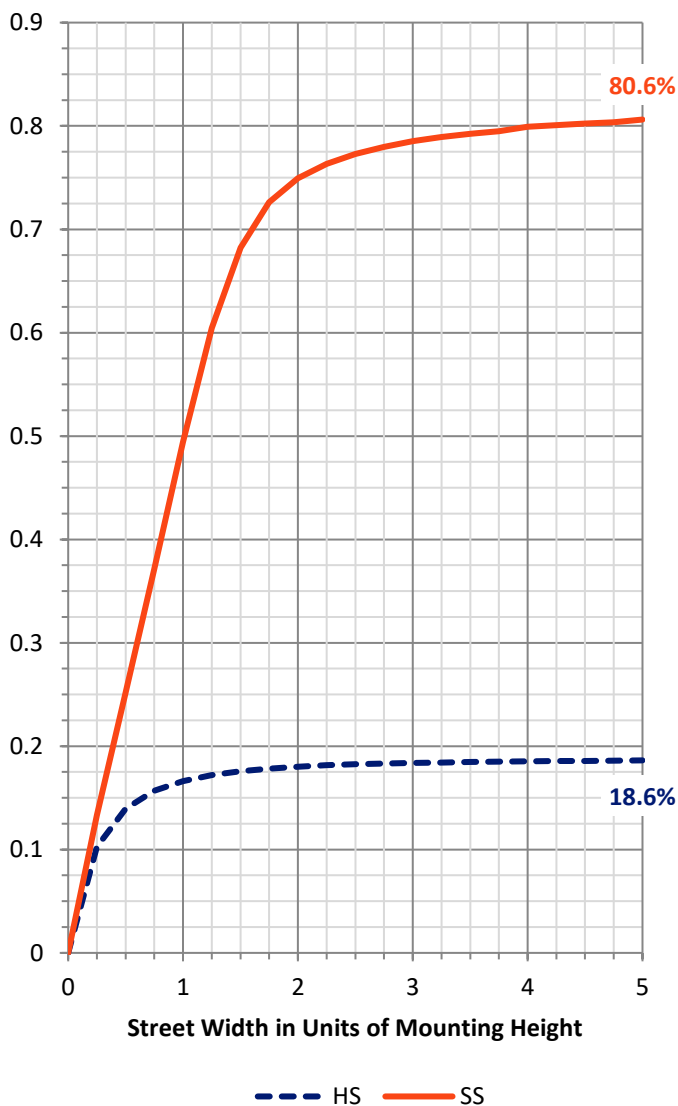
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5744.7	0.0	5744.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24802.3	0.0	24802.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	30547.0	0.0	30547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.6	2.0
10°-20°	1453.0	4.8
20°-30°	1978.0	6.5
30°-40°	2658.1	8.7
40°-50°	3968.9	13.0
50°-60°	6313.2	20.7
60°-70°	7764.9	25.4
70°-80°	5052.2	16.5
80°-90°	746.1	2.4
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°	30547.0	100.0
0°-180°	30547.0	100.0

Coefficient of Utilization



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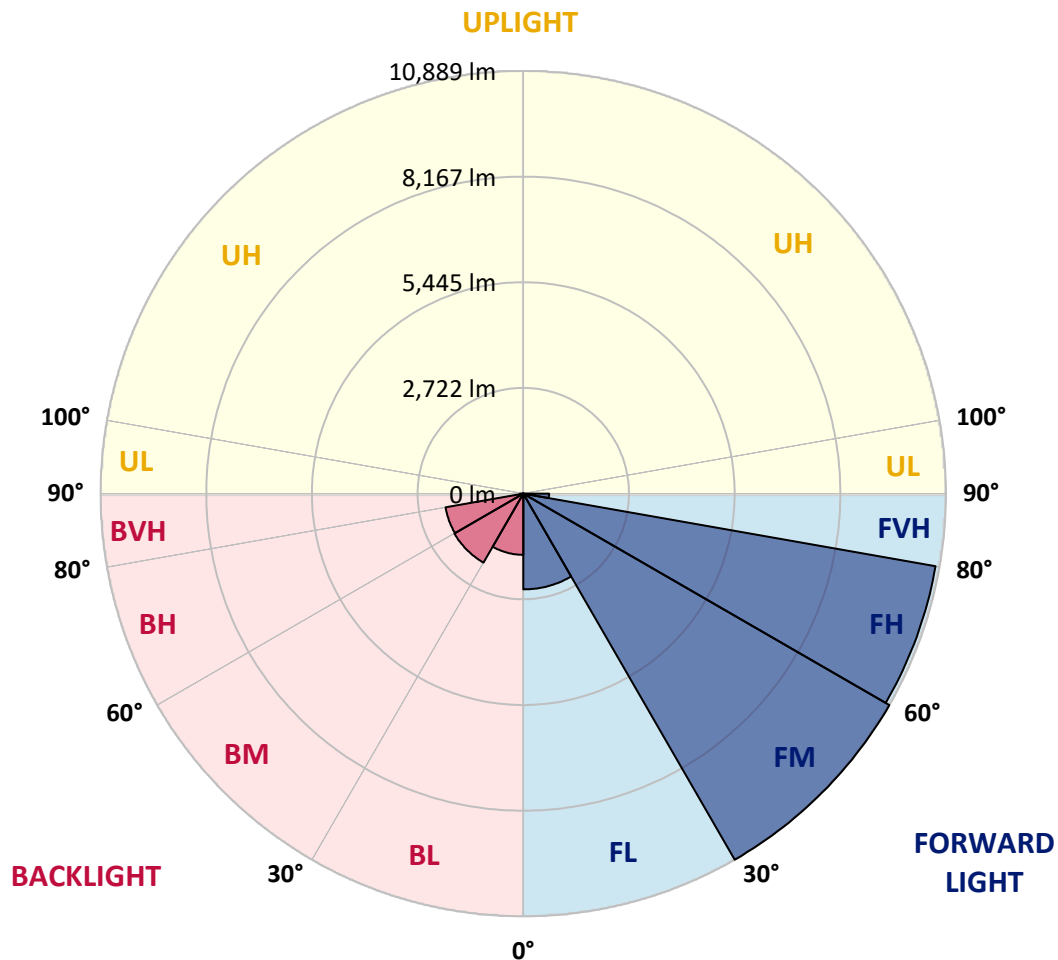
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2466.6	8.1			
FM	(30°-60°)	10889.1	35.6			
FH	(60°-80°)	10783.3	35.3			G4/12000
FVH	(80°-90°)	663.3	2.2			G4/750
BL	(0°-30°)	1577.0	5.2	B3/2500		
BM	(30°-60°)	2051.1	6.7	B2/2500		
BH	(60°-80°)	2033.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	82.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2
2.5°	6807.2	6834.2	6864.7	6898.5	6962.8	6998.3	7023.7	7052.5	7055.8	7071.1	7059.2
5°	6304.8	6336.9	6382.6	6446.9	6543.3	6693.8	6849.5	6976.3	6991.6	7062.6	7082.9
7.5°	5885.2	5903.8	5941.0	6044.2	6181.3	6348.7	6575.4	6832.5	6869.8	7038.9	7098.1
10°	5543.5	5562.1	5606.1	5712.7	5848.0	6057.8	6306.4	6644.8	6675.2	6966.2	7101.5
12.5°	5288.1	5305.0	5352.4	5457.2	5612.9	5809.1	6083.1	6441.8	6485.8	6869.8	7069.4
15°	5093.5	5125.7	5164.6	5250.9	5414.9	5604.4	5870.0	6255.7	6291.2	6768.3	7047.4
17.5°	5010.6	5025.9	5052.9	5132.4	5252.6	5438.6	5705.9	6110.2	6152.5	6697.2	7042.3
20°	5014.0	5029.3	5034.3	5078.3	5164.6	5325.3	5589.2	5995.2	6045.9	6634.6	7050.8
22.5°	5129.1	5130.8	5112.1	5096.9	5130.8	5264.4	5506.3	5908.9	5968.1	6607.6	7057.5
25°	5306.7	5337.1	5310.1	5239.0	5176.4	5240.7	5474.2	5861.5	5917.4	6568.6	7049.1
27.5°	5594.3	5599.3	5577.3	5480.9	5318.5	5271.2	5460.6	5826.0	5873.4	6539.9	7006.8
30°	5980.0	5964.7	5944.4	5837.9	5582.4	5387.9	5489.4	5793.9	5842.9	6497.6	6956.0
32.5°	6370.7	6418.1	6399.5	6274.3	5942.7	5614.6	5582.4	5790.5	5831.1	6465.5	6900.2
35°	6785.2	6807.2	6895.1	6830.9	6490.8	5981.6	5756.7	5842.9	5875.1	6467.2	6861.3
37.5°	7110.0	7169.2	7375.6	7431.4	7111.7	6467.2	6039.2	5991.8	6005.3	6550.0	6876.5
40°	7502.4	7603.9	7869.5	8097.9	7888.1	7098.1	6519.6	6267.5	6284.5	6749.7	6976.3
42.5°	7999.8	8070.8	8427.8	8737.3	8703.5	7932.1	7101.5	6719.2	6727.7	7147.2	7255.5
45°	8581.7	8683.2	9084.1	9549.3	9628.8	8876.1	7942.3	7402.6	7397.6	7764.6	7776.5
47.5°	9326.0	9388.6	9786.2	10293.6	10615.1	10061.9	8962.3	8383.8	8329.6	8664.6	8568.2
50°	10011.1	10109.3	10410.4	10965.2	11765.4	11450.7	10303.8	9655.9	9529.0	9842.0	9679.6
52.5°	10298.7	10401.9	10655.7	11344.2	12751.6	13247.3	12007.3	11173.3	10961.8	11202.1	11142.9
55°	9799.7	9933.3	10170.2	11007.5	13184.7	15319.5	14304.5	12927.5	12773.6	12670.4	12687.3
57.5°	8458.2	8585.1	8904.8	9828.4	12667.0	16823.4	17584.6	15182.5	14852.6	14377.3	14458.5
60°	6438.4	6517.9	6683.7	7707.1	11132.7	17214.2	21309.6	18032.9	17823.1	16077.4	16134.9
62.5°	4572.5	4662.2	4777.2	5288.1	8150.3	16112.9	24226.0	22013.3	21264.0	17838.4	17782.6
65°	3713.2	3652.3	3791.0	4029.5	4782.3	12487.7	24882.4	27538.3	26506.4	20157.6	19382.8
67.5°	3053.4	2989.1	3126.2	3550.8	3637.0	7248.7	22517.5	31124.5	30918.2	22679.9	21008.5
69°	2703.2	2669.4	2789.5	3273.3	3491.6	5147.7	19616.3	31623.6	31672.6	24166.8	21258.9
70°	2436.0	2449.5	2566.2	3132.9	3425.6	4244.3	16765.9	30935.1	31351.2	24909.4	20988.2
72.5°	1793.1	1821.9	1984.3	2595.0	3363.0	3601.5	9977.3	27020.6	27756.5	24953.4	19200.1
75°	1253.5	1240.0	1383.8	1953.8	3176.9	3569.4	5859.9	20896.9	21730.8	21568.4	16133.2
77.5°	820.4	842.4	957.5	1380.4	2672.8	3542.3	3819.7	14825.6	15366.9	14424.6	9542.6
80°	578.5	576.9	641.1	942.2	1982.6	3403.6	3127.8	9344.6	9207.6	5668.7	2830.1
82.5°	331.6	355.2	429.7	663.1	1326.2	2995.9	2877.5	4469.3	4080.2	1615.5	955.8
85°	184.4	192.8	255.4	400.9	774.8	2256.7	2512.1	2033.4	1918.3	675.0	411.1
87.5°	59.2	64.3	106.6	203.0	351.9	1065.7	1422.7	938.9	866.1	243.6	165.8
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°	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2
2.5°	7064.3	7084.6	7030.5	6978.0	6930.7	6864.7	6805.5	6756.4	6722.6	6717.5	6700.6
5°	7088.0	7089.7	6986.5	6847.8	6712.4	6563.6	6409.6	6299.7	6196.5	6139.0	6110.2
7.5°	7104.9	7089.7	6903.6	6678.6	6418.1	6147.4	5876.8	5660.2	5492.8	5426.8	5452.2
10°	7098.1	7050.8	6778.4	6418.1	6039.2	5634.9	5245.8	4941.3	4662.2	4518.4	4521.8
12.5°	7060.9	6983.1	6592.3	6125.4	5568.9	5027.6	4432.1	4021.0	3697.9	3506.8	3447.6
15°	7028.8	6893.4	6374.1	5727.9	5036.0	4262.9	3537.2	3029.7	2759.1	2608.5	2606.8
17.5°	6994.9	6807.2	6135.6	5306.7	4423.6	3429.0	2667.7	2280.3	2153.5	2168.7	2143.3
20°	6959.4	6705.7	5886.9	4838.1	3677.6	2557.8	1997.8	1840.5	1876.0	1945.4	1955.5
22.5°	6918.8	6597.4	5619.6	4322.1	2892.7	1925.1	1620.6	1596.9	1688.3	1796.5	1811.7
25°	6856.2	6462.1	5283.0	3782.5	2231.3	1551.2	1419.3	1436.2	1525.9	1617.2	1627.4
27.5°	6768.3	6294.6	4943.0	3109.2	1676.4	1331.3	1297.5	1319.5	1363.5	1419.3	1432.8
30°	6649.8	6105.1	4552.2	2527.3	1343.2	1221.4	1207.8	1219.7	1245.0	1268.7	1275.5
32.5°	6531.4	5922.4	4158.1	1935.2	1197.7	1148.6	1135.1	1135.1	1135.1	1138.5	1140.2
35°	6421.5	5749.9	3735.1	1507.3	1121.6	1091.1	1072.5	1052.2	1048.8	1037.0	1037.0
37.5°	6360.6	5592.6	3285.2	1262.0	1065.7	1043.7	1018.4	984.5	965.9	967.6	964.2
40°	6372.4	5489.4	2875.8	1123.3	1020.1	996.4	957.5	918.6	906.7	906.7	903.3
42.5°	6506.1	5455.5	2483.3	1050.5	976.1	949.0	900.0	864.4	857.7	856.0	859.4
45°	6813.9	5538.4	2131.5	1003.1	938.9	898.3	849.2	817.1	810.3	810.3	808.6
47.5°	7414.5	5807.4	1879.4	972.7	911.8	859.4	808.6	776.5	764.6	761.2	761.2
50°	8348.3	6391.0	1691.6	945.6	878.0	823.8	771.4	734.2	715.6	713.9	712.2
52.5°	9645.7	7301.1	1618.9	925.3	840.7	786.6	729.1	693.6	669.9	664.8	661.4
55°	11163.2	8571.6	1718.7	910.1	801.8	744.3	685.1	647.9	625.9	615.8	614.1
57.5°	12920.8	10097.4	2097.6	889.8	766.3	698.6	641.1	603.9	580.2	568.4	565.0
60°	14499.1	11665.6	2759.1	878.0	735.9	649.6	590.4	556.6	534.6	522.7	521.0
62.5°	16233.0	13161.0	3549.1	910.1	722.3	602.2	543.0	512.6	494.0	482.1	482.1
65°	18085.4	14658.1	4071.8	1018.4	742.6	565.0	492.3	466.9	450.0	441.5	439.8
67.5°	19333.8	15175.7	3354.5	1130.0	793.4	524.4	443.2	422.9	412.8	404.3	404.3
69°	19198.5	14521.1	2474.9	1158.8	808.6	504.1	416.1	400.9	387.4	384.0	380.6
70°	18770.5	13775.0	2074.0	1140.2	796.8	485.5	399.2	380.6	368.8	365.4	363.7
72.5°	16718.5	11946.4	1544.5	991.3	678.3	421.2	353.6	336.6	326.5	321.4	321.4
75°	13890.1	9764.2	1206.1	788.3	531.2	355.2	302.8	289.3	280.8	277.4	275.7
77.5°	7784.9	5452.2	866.1	617.4	402.6	287.6	253.7	241.9	233.4	230.1	230.1
80°	2168.7	1558.0	509.2	407.7	274.0	218.2	201.3	192.8	181.0	172.5	177.6
82.5°	817.1	675.0	291.0	245.3	174.2	145.5	140.4	133.6	128.6	116.7	116.7
85°	397.5	328.2	186.1	130.3	96.4	76.1	72.7	69.4	66.0	57.5	59.2
87.5°	137.0	145.5	81.2	47.4	28.8	18.6	15.2	8.5	8.5	8.5	8.5
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)