

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: P382844

Luminaire Tested: **GLEON-SA2A-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6832 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

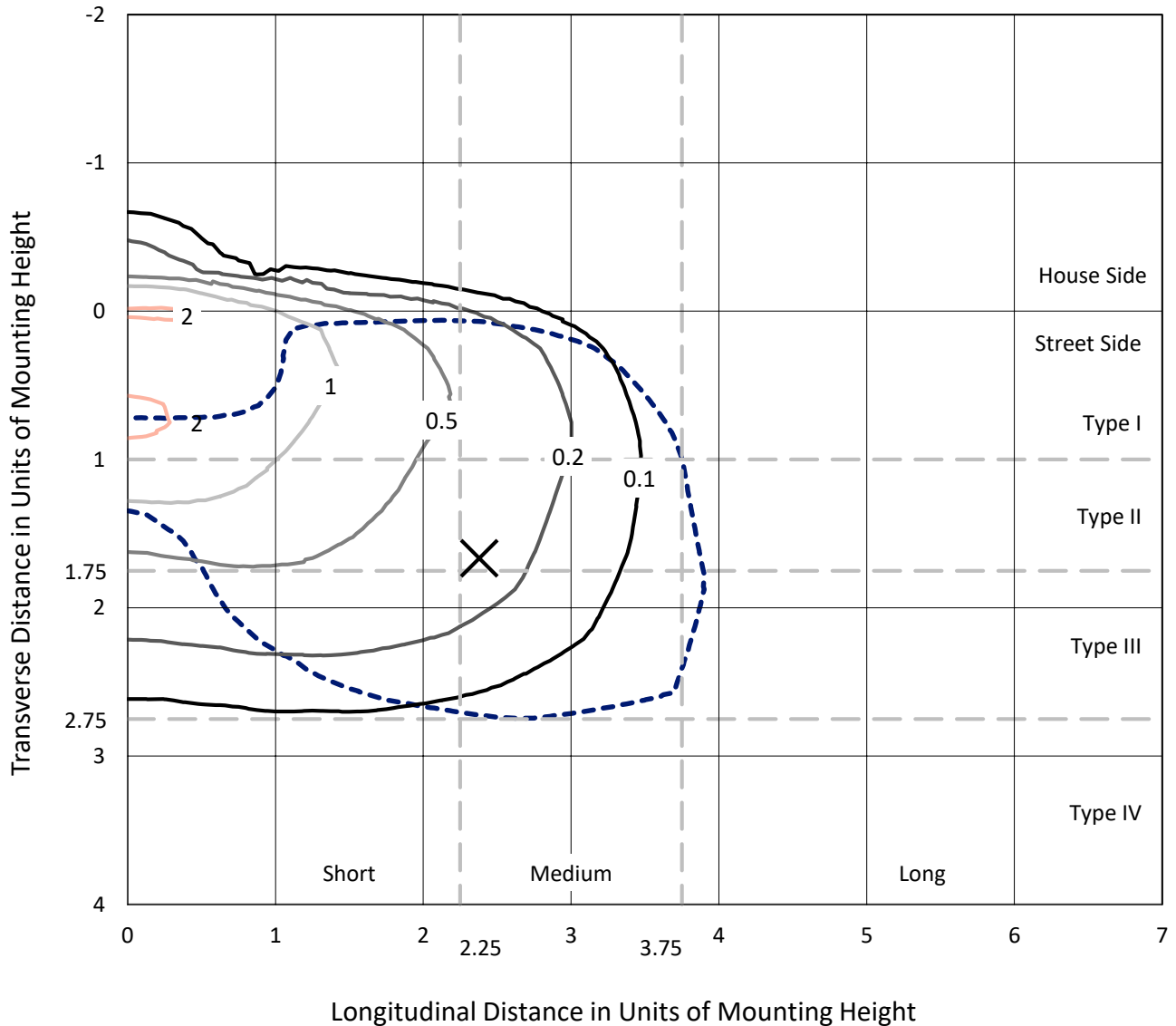
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

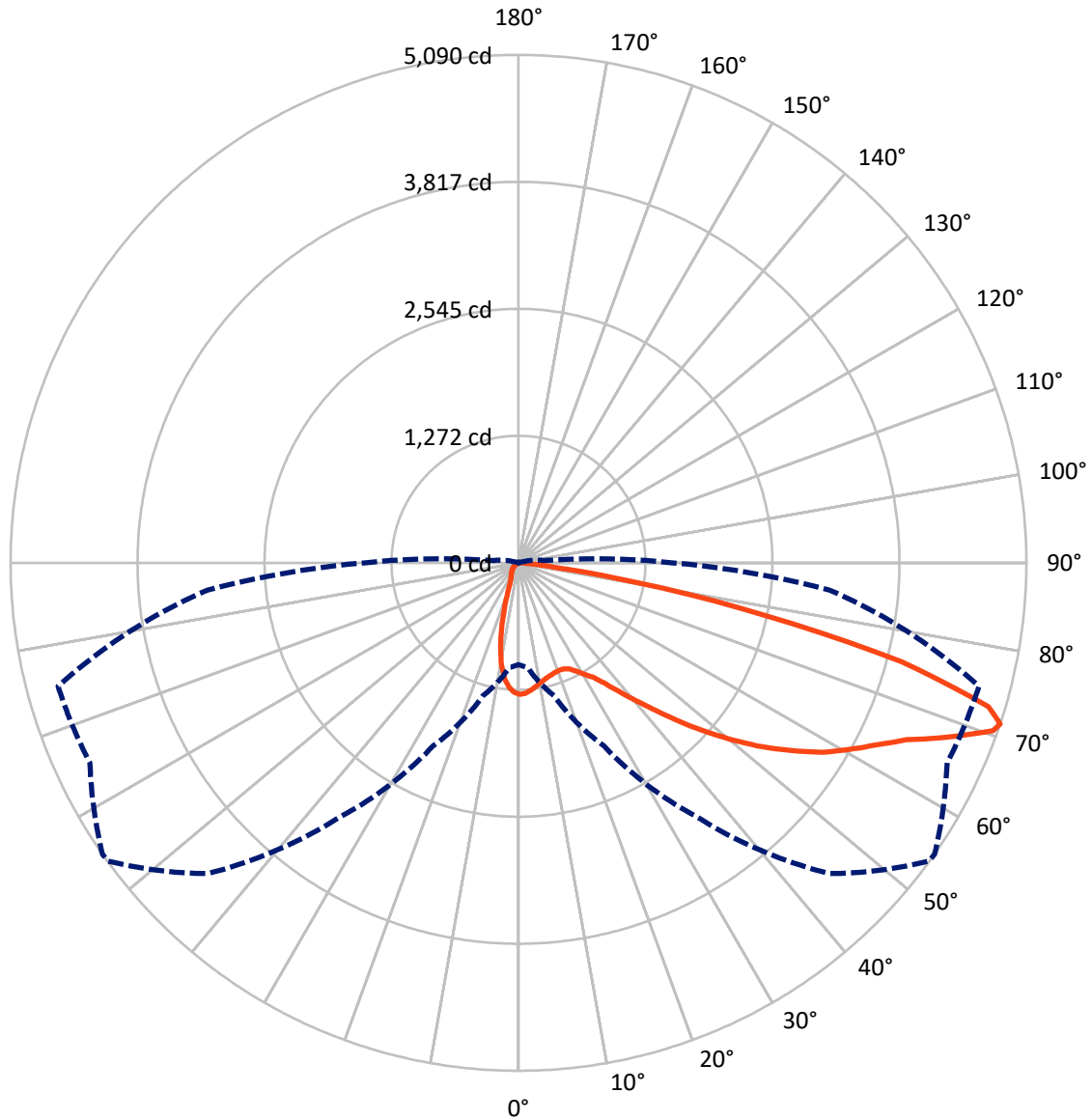
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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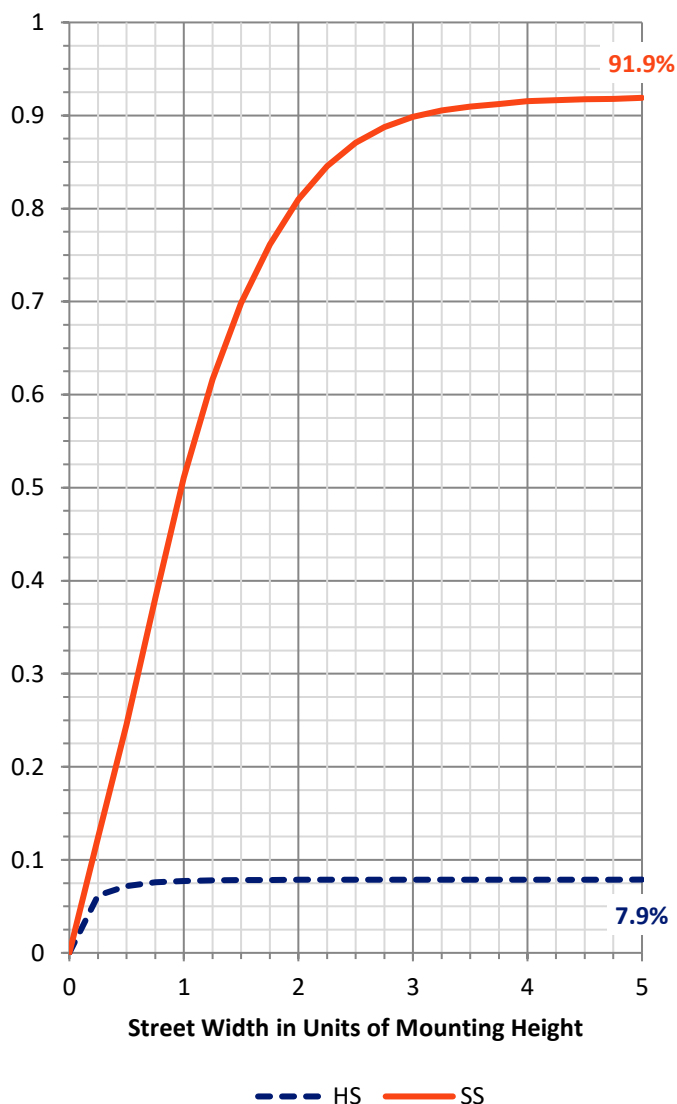
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	540.9	0.0	540.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	6291.1	0.0	6291.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	6832.0	0.0	6832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	1.6
10°-20°	253.6	3.7
20°-30°	407.6	6.0
30°-40°	692.5	10.1
40°-50°	1074.8	15.7
50°-60°	1445.1	21.2
60°-70°	1767.8	25.9
70°-80°	1033.6	15.1
80°-90°	44.7	0.7
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°	6832.0	100.0
0°-180°	6832.0	100.0

Coefficient of Utilization

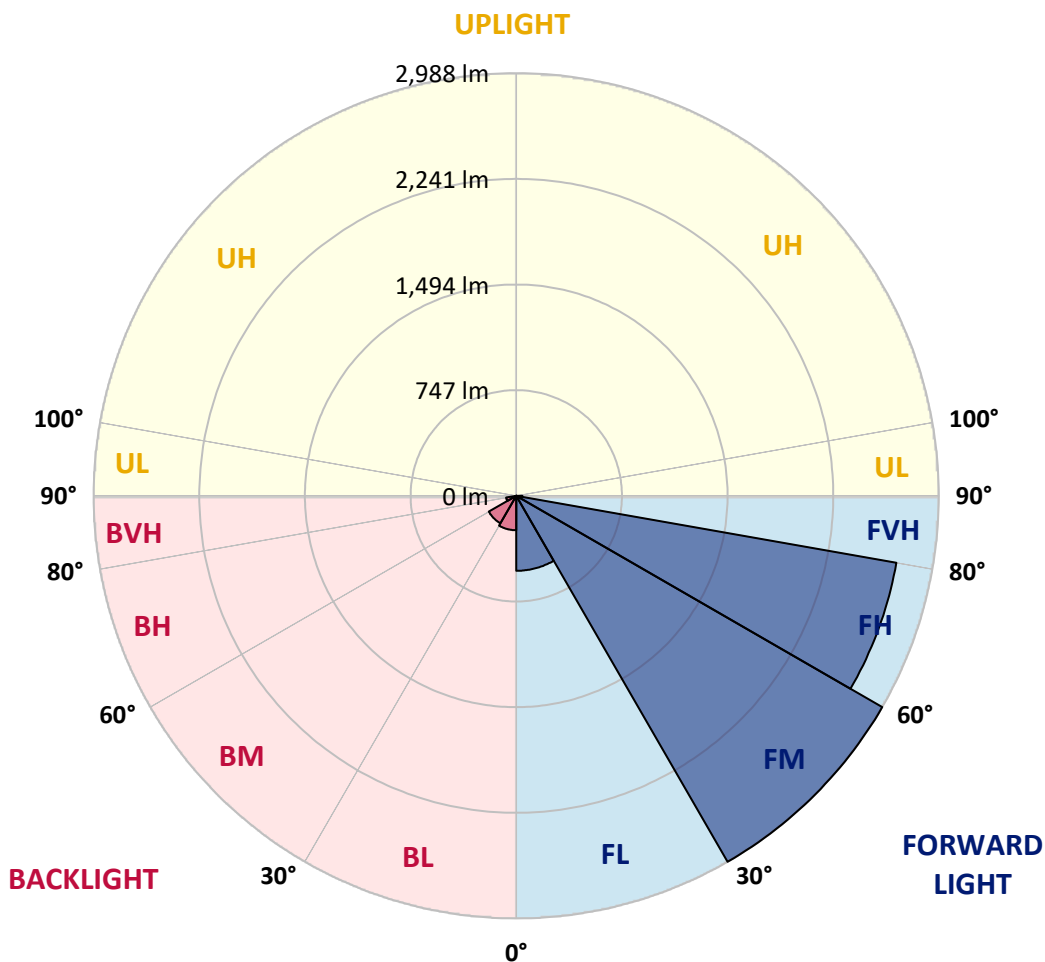


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.1	7.8			
FM (30°-60°)	2988.1	43.7			
FH (60°-80°)	2728.9	39.9			G2/5000
FVH (80°-90°)	44.0	0.6			G1/100
BL (0°-30°)	243.5	3.6	B1/500		
BM (30°-60°)	224.3	3.3	B1/1000		
BH (60°-80°)	72.5	1.1	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6
2.5°	1278.9	1280.4	1286.0	1288.4	1294.3	1304.1	1309.0	1309.3	1317.3	1320.4	1322.8
5°	1188.4	1197.6	1206.8	1216.6	1234.4	1258.1	1281.3	1283.5	1309.3	1328.3	1338.4
7.5°	1110.5	1118.8	1129.9	1145.4	1170.6	1207.8	1246.7	1251.3	1300.1	1343.4	1366.0
10°	1030.5	1037.2	1053.1	1076.1	1110.8	1160.5	1213.0	1220.6	1291.8	1363.6	1403.5
12.5°	944.9	948.9	968.2	1001.3	1052.2	1115.4	1184.5	1194.5	1286.6	1386.9	1447.6
15°	879.8	881.6	900.1	934.4	992.7	1074.9	1162.4	1174.6	1287.8	1414.8	1495.8
17.5°	863.3	864.2	874.0	897.6	949.2	1038.7	1144.9	1159.9	1291.5	1442.1	1544.2
20°	930.4	924.0	913.8	910.2	932.3	1017.0	1134.4	1151.3	1296.4	1466.3	1587.8
22.5°	1114.8	1095.8	1053.8	997.6	963.6	1018.5	1137.2	1154.1	1312.1	1496.1	1638.1
25°	1388.5	1362.0	1290.6	1180.2	1074.0	1062.6	1160.2	1177.4	1342.5	1531.7	1686.3
27.5°	1699.8	1673.7	1586.3	1428.6	1247.6	1150.1	1213.0	1228.9	1387.5	1563.3	1723.1
30°	1998.0	1990.6	1887.5	1708.4	1466.1	1291.8	1281.1	1294.6	1421.0	1582.3	1752.2
32.5°	2250.8	2239.1	2156.3	1982.1	1716.1	1462.1	1361.2	1365.1	1446.1	1606.8	1790.3
35°	2485.1	2470.7	2398.0	2233.3	1972.6	1670.1	1484.4	1478.6	1501.0	1656.2	1845.5
37.5°	2689.8	2703.0	2622.2	2465.5	2202.6	1886.3	1650.7	1633.2	1586.9	1736.6	1925.6
40°	2860.9	2860.9	2818.9	2688.2	2451.1	2110.0	1838.8	1815.8	1716.1	1860.6	2027.1
42.5°	2922.5	2935.8	2951.4	2877.5	2673.4	2342.5	2048.3	2024.3	1897.9	2036.4	2155.3
45°	2926.3	2947.1	3027.2	3026.9	2874.4	2573.5	2284.5	2273.2	2131.1	2262.1	2314.2
47.5°	2874.4	2900.5	3032.4	3107.3	3033.7	2788.5	2542.8	2528.7	2405.1	2538.8	2480.5
50°	2794.4	2823.1	2976.6	3138.8	3141.9	2975.6	2815.0	2793.7	2706.6	2855.1	2652.3
52.5°	2651.1	2706.9	2926.5	3146.2	3213.1	3137.4	3073.8	3064.6	3044.0	3159.7	2789.1
55°	2344.6	2406.6	2801.1	3148.6	3279.0	3280.5	3316.5	3318.9	3360.4	3444.4	2891.0
57.5°	2199.8	2234.8	2582.1	3160.4	3376.9	3443.2	3563.7	3582.7	3646.8	3714.6	3007.2
60°	2108.7	2150.1	2474.1	3144.3	3530.6	3656.4	3792.9	3799.3	3868.1	3993.5	3164.7
62.5°	2036.0	2076.8	2406.0	3083.0	3703.3	3912.9	4016.8	4017.4	4069.0	4325.7	3343.5
65°	1856.6	1890.9	2268.2	3014.0	3817.4	4166.5	4276.9	4273.0	4315.0	4676.1	3551.2
67.5°	1597.0	1623.4	1986.9	2752.4	3774.4	4397.2	4669.7	4656.4	4605.5	4978.8	3632.8
70°	1234.8	1244.3	1566.0	2293.7	3372.0	4485.9	5049.1	5042.4	4783.8	4924.5	3333.6
71°	1020.6	1051.9	1380.2	2024.3	3102.3	4404.0	5085.9	5089.9	4739.0	4776.7	3127.8
72.5°	592.7	619.4	1000.4	1554.7	2634.0	4062.2	4895.1	4924.0	4529.7	4344.7	2671.7
75°	127.0	135.9	370.8	752.5	1448.8	2847.1	3863.8	3966.5	3692.0	2955.7	1610.3
77.5°	88.3	95.4	158.9	341.4	478.9	1406.8	2400.1	2516.1	2205.6	1110.8	515.3
80°	70.0	77.9	123.9	168.7	129.5	453.8	1124.3	1195.2	735.6	247.9	86.8
82.5°	38.9	46.3	96.6	91.1	49.7	86.2	314.8	355.9	147.3	50.0	20.6
85°	11.4	13.8	62.3	66.2	21.1	16.6	53.7	66.6	27.9	13.2	9.2
87.5°	0.0	0.0	30.1	25.4	6.1	2.4	4.9	5.5	5.5	5.5	6.1
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°	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6	1317.6
2.5°	1322.8	1324.9	1317.3	1307.1	1296.4	1283.2	1269.4	1258.7	1258.3	1253.1	1247.9
5°	1339.0	1337.8	1316.6	1284.4	1246.4	1206.8	1169.1	1126.4	1112.4	1094.8	1089.1
7.5°	1369.1	1360.5	1315.7	1245.2	1161.7	1078.9	993.3	907.1	870.3	837.2	831.3
10°	1406.8	1390.6	1309.9	1186.2	1033.2	880.4	751.3	634.1	582.6	543.0	541.1
12.5°	1446.1	1421.3	1293.6	1097.3	864.8	650.0	501.3	385.9	343.0	315.3	317.8
15°	1487.2	1450.1	1258.7	977.4	673.0	441.1	308.0	240.2	223.0	215.9	217.8
17.5°	1529.2	1470.1	1209.9	832.9	483.8	284.7	213.2	194.2	194.2	195.7	196.4
20°	1565.7	1480.8	1138.1	670.9	327.9	207.4	186.5	183.8	185.3	187.7	188.1
22.5°	1602.0	1481.3	1044.5	506.8	229.4	181.7	177.6	176.4	177.3	180.1	180.3
25°	1631.4	1474.0	927.4	360.4	183.1	171.2	169.4	168.7	169.4	172.7	172.7
27.5°	1643.3	1447.3	784.4	253.4	164.1	159.5	158.9	159.5	160.4	162.9	163.2
30°	1644.6	1400.7	628.6	183.4	148.8	143.8	145.1	147.3	146.3	145.7	146.3
32.5°	1647.6	1346.7	476.7	150.9	135.9	128.3	126.7	126.7	123.1	120.8	119.6
35°	1657.8	1283.2	345.7	135.6	122.7	113.8	108.0	101.3	94.2	90.5	89.6
37.5°	1673.7	1216.6	247.6	125.5	111.0	100.9	89.9	77.9	67.8	65.0	65.0
40°	1702.9	1147.9	183.1	117.5	101.8	89.2	72.7	57.1	47.9	46.3	46.3
42.5°	1748.9	1075.6	146.1	110.5	93.9	77.3	55.5	41.5	34.7	33.7	33.4
45°	1796.8	995.7	127.6	103.7	85.2	63.5	41.1	30.6	26.7	25.8	25.8
47.5°	1844.6	910.8	118.7	97.3	77.0	49.4	30.6	24.2	22.4	22.4	22.7
50°	1885.1	822.2	112.3	90.2	66.2	37.4	24.2	20.6	19.9	21.1	21.5
52.5°	1895.2	735.0	104.3	81.3	53.1	28.5	19.9	18.1	18.1	18.1	18.1
55°	1889.1	667.5	93.9	70.2	39.3	22.7	17.1	15.9	15.6	15.6	15.6
57.5°	1910.0	627.7	75.2	54.6	28.2	18.4	15.0	14.1	13.5	13.2	13.2
60°	1952.0	601.6	53.7	39.3	21.1	15.4	12.9	11.9	11.1	10.4	10.4
62.5°	2007.8	578.9	39.9	29.2	16.3	12.3	10.7	9.8	8.6	8.0	8.0
65°	2050.7	538.3	30.4	21.8	12.3	9.8	8.3	8.0	6.1	5.5	5.2
67.5°	1985.1	449.4	24.5	15.9	9.2	7.6	6.4	6.1	3.7	3.1	3.1
70°	1702.6	312.9	19.7	11.6	6.7	6.1	5.2	4.0	2.8	2.4	2.4
71°	1543.9	261.4	17.8	9.8	5.9	5.9	4.9	3.4	2.4	2.1	2.1
72.5°	1282.6	185.6	15.0	7.6	5.2	6.1	5.2	3.1	2.4	2.1	1.9
75°	744.5	77.6	10.4	5.2	4.0	7.4	6.7	2.8	1.9	1.5	1.5
77.5°	223.9	28.5	5.9	3.4	3.1	6.4	7.6	2.4	0.9	0.3	0.3
80°	40.8	12.3	3.7	2.1	2.1	4.0	5.9	1.2	0.0	0.0	0.0
82.5°	14.4	6.1	2.1	1.2	0.9	1.9	2.8	0.0	0.0	0.0	0.0
85°	8.3	4.3	1.2	0.7	0.0	0.3	0.7	0.0	0.0	0.0	0.0
87.5°	5.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)