

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: P200626

Luminaire Tested: **GPC-AF-02-LED-E1-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-SL4-8030-1200-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9025 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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: 25 FT

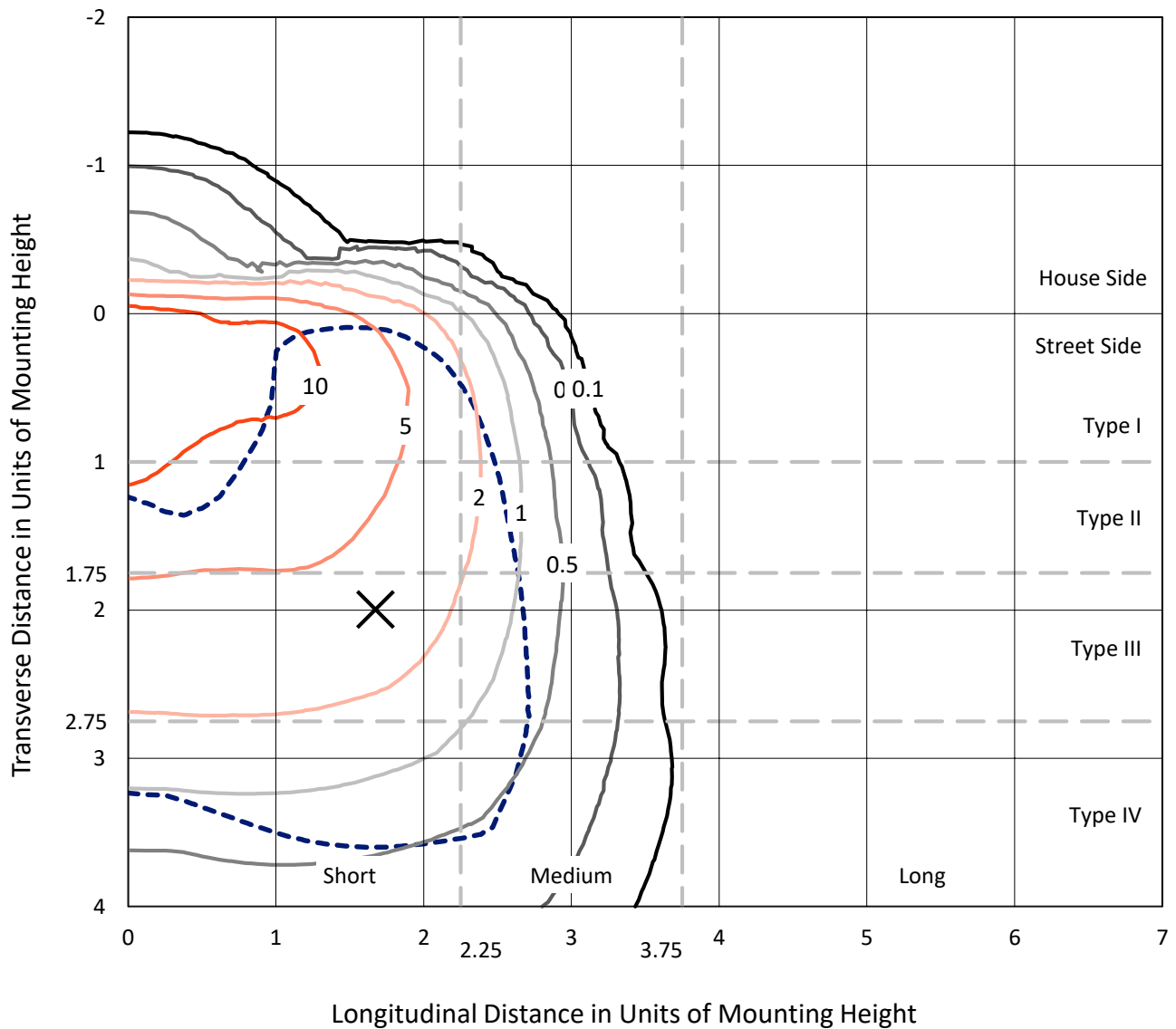


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

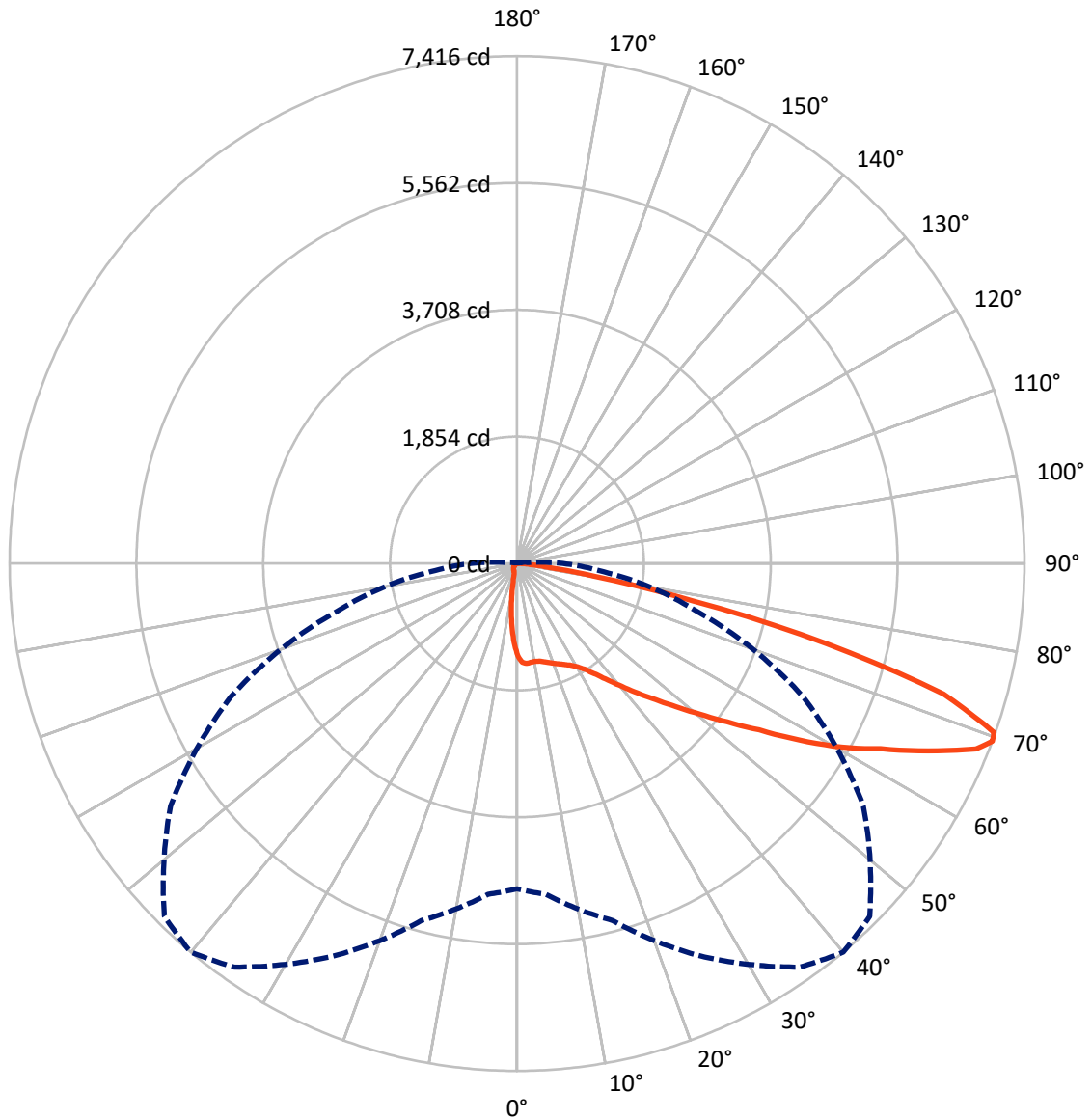


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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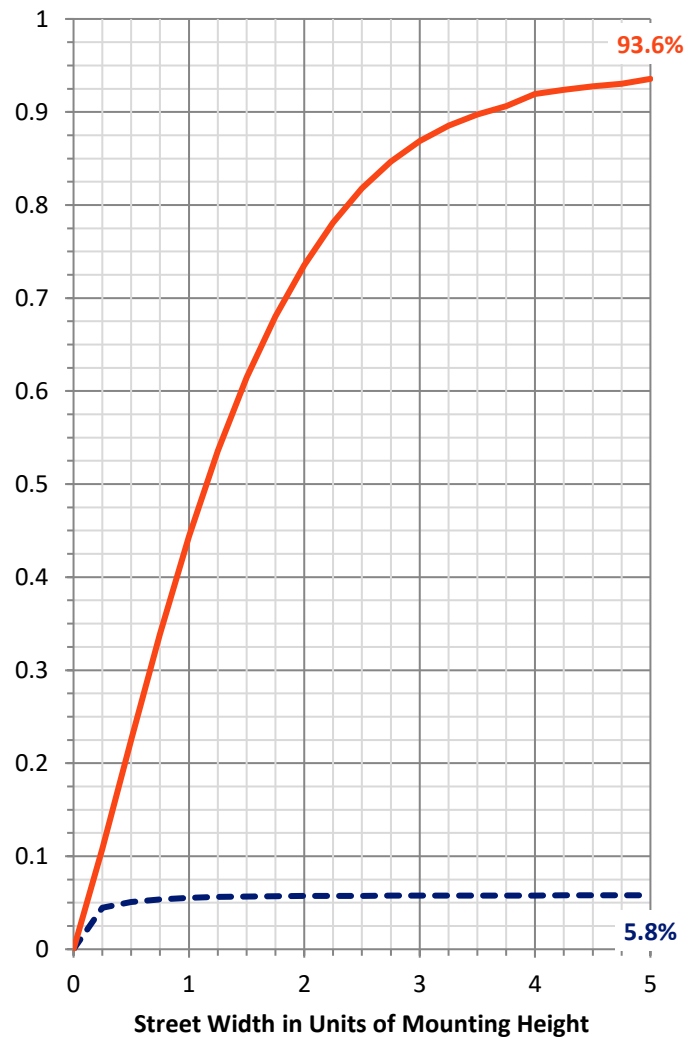
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	528.0	0.0	528.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	8497.0	0.0	8497.0
	% Fixture	94.1	0.0	94.1
Total	Lumens	9025.0	0.0	9025.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	1.2
10°-20°	268.9	3.0
20°-30°	452.8	5.0
30°-40°	741.3	8.2
40°-50°	1283.6	14.2
50°-60°	2021.8	22.4
60°-70°	2640.3	29.3
70°-80°	1359.9	15.1
80°-90°	147.1	1.6
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°	9025.0	100.0
0°-180°	9025.0	100.0



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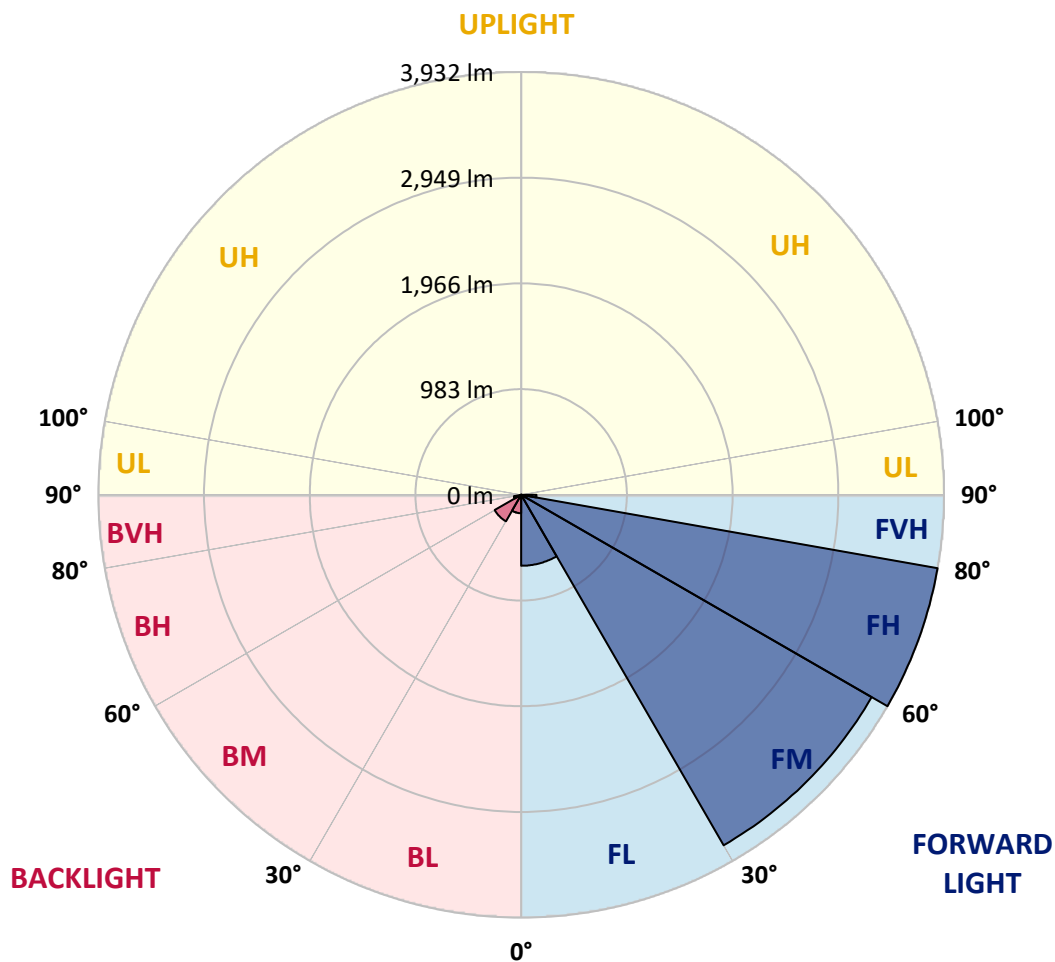
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.0	7.3			
FM (30°-60°)	3762.9	41.7			
FH (60°-80°)	3931.7	43.6			G2/5000
FVH (80°-90°)	142.5	1.6			G2/225
BL (0°-30°)	171.0	1.9	B1/500		
BM (30°-60°)	283.8	3.1	B1/1000		
BH (60°-80°)	68.6	0.8	B0/110		G0/110
BVH (80°-90°)	4.6	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1348.4	1348.4	1348.4	1348.4	1348.4	1348.4	1348.4	1348.4	1348.4	1348.4	1348.4
2.5°	1480.5	1472.5	1467.6	1461.2	1453.1	1446.2	1443.5	1423.6	1404.8	1379.0	1349.5
5°	1507.9	1505.2	1496.6	1488.1	1478.4	1467.6	1461.7	1438.1	1411.2	1373.6	1322.1
7.5°	1510.6	1507.4	1496.6	1484.8	1471.4	1458.5	1448.3	1424.7	1400.0	1361.8	1299.0
10°	1506.3	1502.6	1494.5	1481.6	1465.0	1452.6	1442.4	1419.8	1398.9	1364.5	1294.7
12.5°	1501.5	1497.7	1494.0	1487.5	1473.0	1464.4	1455.8	1434.3	1415.5	1386.5	1310.2
15°	1506.3	1504.2	1508.5	1505.8	1497.7	1490.2	1481.6	1462.3	1445.1	1420.9	1338.7
17.5°	1526.7	1526.7	1540.2	1541.8	1534.3	1523.5	1511.2	1491.8	1477.3	1456.9	1372.6
20°	1574.5	1572.9	1590.1	1593.3	1575.1	1558.4	1540.2	1516.5	1505.2	1492.4	1405.9
22.5°	1656.7	1649.2	1659.4	1656.2	1620.2	1594.4	1571.9	1542.8	1536.9	1531.0	1442.9
25°	1763.6	1759.3	1766.3	1734.6	1671.2	1636.3	1609.5	1576.7	1576.7	1582.6	1484.8
27.5°	1918.9	1902.8	1879.1	1823.3	1728.2	1683.6	1654.6	1619.7	1628.8	1650.8	1540.2
30°	2077.9	2060.2	2005.9	1920.0	1797.5	1750.7	1716.9	1680.4	1701.9	1742.2	1614.3
32.5°	2234.8	2214.9	2138.1	2029.6	1896.9	1850.1	1817.4	1777.1	1813.1	1880.8	1722.8
35°	2386.8	2369.1	2280.4	2152.6	2029.0	1990.3	1960.3	1925.3	1971.5	2066.1	1875.9
37.5°	2557.6	2538.3	2430.3	2291.7	2189.6	2161.7	2139.7	2104.8	2185.3	2323.9	2089.2
40°	2767.7	2734.9	2589.3	2451.3	2375.5	2362.1	2347.0	2342.2	2467.4	2659.2	2373.4
42.5°	3008.3	2954.6	2755.9	2619.4	2579.7	2589.3	2585.6	2607.0	2820.3	3076.0	2719.3
45°	3249.0	3179.7	2941.2	2798.8	2804.2	2838.0	2859.0	2945.0	3262.4	3554.1	3091.6
47.5°	3453.1	3384.9	3119.0	2992.8	3057.2	3123.8	3180.8	3343.6	3716.9	4024.7	3381.2
50°	3627.7	3563.3	3307.6	3206.0	3351.1	3458.5	3550.9	3792.1	4205.8	4383.0	3584.2
52.5°	3770.6	3727.7	3503.1	3450.5	3686.8	3844.2	3979.6	4268.6	4638.8	4674.2	3742.2
55°	3909.8	3879.1	3713.2	3741.1	4081.1	4295.5	4466.8	4774.1	5011.6	4917.0	3893.7
57.5°	4069.9	4041.9	3952.7	4109.6	4599.5	4869.2	5056.2	5222.2	5339.8	5165.2	4036.5
60°	4233.2	4217.0	4219.2	4519.0	5194.8	5453.7	5556.8	5599.8	5662.1	5398.9	4044.6
62.5°	4389.0	4419.6	4523.8	4974.5	5764.7	5963.5	6015.6	6058.0	5985.0	5436.0	3736.8
65°	4652.7	4702.7	4951.4	5584.2	6391.7	6604.4	6658.1	6512.5	6036.0	4956.8	3039.5
67.5°	4781.7	4873.0	5316.7	6152.6	6999.8	7236.1	7216.3	6542.1	5416.6	3779.8	1950.6
69°	4754.8	4852.0	5401.0	6326.6	7201.8	7416.1	7289.9	6180.5	4614.6	2738.1	1197.4
70°	4648.4	4746.7	5357.5	6320.2	7227.5	7397.3	7153.4	5734.1	3901.7	2002.2	748.9
72.5°	3881.8	3966.7	4756.4	5712.6	6658.1	6520.0	5984.4	3972.6	1901.2	545.3	168.7
75°	2389.5	2436.8	3412.9	4303.5	5028.8	4674.2	3987.1	1976.4	566.7	154.2	93.5
77.5°	1262.4	1283.9	1868.4	2536.7	3187.8	2637.7	2043.5	770.9	261.1	96.7	67.7
80°	746.2	762.3	1006.2	1159.8	1379.5	1152.3	817.1	473.3	186.9	60.7	60.2
82.5°	427.1	437.3	729.5	644.6	543.7	464.1	406.7	448.6	112.3	40.8	62.3
85°	156.9	159.0	410.4	490.5	323.4	192.3	202.0	371.7	30.1	25.8	48.9
87.5°	73.1	71.4	211.1	300.3	189.1	121.9	157.4	81.7	11.8	16.7	13.4
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°	1348.4	1348.4	1348.4	1348.4	1348.4	1348.4	1348.4	1348.4	1348.4	1348.4	1348.4
2.5°	1332.3	1312.4	1276.4	1239.3	1201.7	1172.7	1144.2	1121.7	1114.2	1100.2	1101.3
5°	1291.4	1254.9	1179.7	1103.4	1023.9	958.4	896.6	846.6	822.5	797.7	797.7
7.5°	1256.0	1202.8	1085.2	961.1	832.7	724.7	627.5	554.4	514.1	481.9	481.3
10°	1242.6	1170.6	1006.2	828.4	649.5	502.3	386.8	312.7	274.5	249.8	248.7
12.5°	1248.5	1159.3	945.5	705.9	481.3	322.9	224.0	176.2	160.1	152.6	152.6
15°	1265.7	1156.1	884.8	586.1	340.0	202.0	148.8	135.9	134.8	134.8	134.8
17.5°	1286.6	1157.1	822.5	469.5	231.5	144.5	128.4	126.8	127.9	127.9	127.9
20°	1308.1	1157.7	755.3	361.5	163.3	125.7	120.9	120.3	121.4	121.4	121.9
22.5°	1334.4	1160.4	688.2	270.2	134.8	118.7	115.0	115.0	115.5	115.5	115.0
25°	1364.5	1165.7	618.3	200.4	123.0	113.9	110.7	110.1	110.7	110.1	109.6
27.5°	1402.1	1173.3	540.4	156.9	117.6	109.1	106.4	106.4	105.8	105.3	104.8
30°	1449.4	1181.8	452.9	133.2	112.3	104.8	102.1	101.5	101.0	99.9	99.9
32.5°	1521.4	1200.7	366.4	120.9	106.4	98.8	96.7	96.7	95.6	94.5	94.0
35°	1632.0	1237.7	289.0	113.3	99.9	92.4	89.7	89.7	88.6	88.1	87.6
37.5°	1785.1	1294.1	224.6	106.4	93.5	85.4	82.7	82.2	81.1	80.0	79.5
40°	1988.7	1364.0	176.7	99.9	87.0	78.4	76.3	75.2	73.1	71.4	71.4
42.5°	2244.4	1443.5	143.4	92.9	79.5	72.0	70.4	68.8	65.0	63.4	62.9
45°	2512.0	1514.9	121.4	84.9	72.0	65.5	64.5	61.8	56.9	55.3	55.3
47.5°	2704.8	1531.6	106.9	77.4	65.0	58.6	58.0	53.2	48.9	47.8	47.3
50°	2825.2	1498.8	95.1	69.8	58.6	52.1	50.5	44.6	41.9	40.8	40.3
52.5°	2906.3	1440.2	85.4	63.4	52.6	46.2	42.4	38.1	36.0	34.9	34.9
55°	2971.3	1357.5	75.7	57.5	47.8	41.4	36.0	32.8	30.6	29.5	29.5
57.5°	2989.5	1245.2	66.1	52.6	43.0	36.5	30.6	28.5	25.8	25.2	25.2
60°	2856.8	1042.7	58.6	46.7	38.7	31.7	26.9	24.2	21.5	21.0	20.4
62.5°	2507.1	806.9	51.6	41.4	33.8	27.4	23.1	19.9	17.7	17.7	17.7
65°	1912.4	541.0	45.1	36.0	29.5	23.1	19.9	16.1	15.0	15.0	15.6
67.5°	1144.8	294.4	38.7	30.6	25.2	19.3	16.7	14.0	13.4	14.0	14.0
69°	671.0	173.0	34.9	27.4	22.0	17.2	14.5	12.4	13.4	14.0	14.0
70°	414.2	116.6	32.2	24.7	19.9	15.6	13.4	11.8	12.9	13.4	13.4
72.5°	115.5	60.2	25.8	19.3	16.1	12.9	10.7	10.7	12.4	12.9	12.9
75°	75.2	44.6	19.9	14.5	12.4	10.2	9.1	10.2	11.8	12.4	12.4
77.5°	62.3	36.5	16.1	11.8	10.2	9.7	8.6	9.1	10.7	11.3	11.3
80°	56.9	25.8	12.9	10.7	9.1	8.6	8.1	7.5	9.7	10.2	10.2
82.5°	54.3	20.4	11.3	9.7	8.6	7.5	7.0	7.5	8.6	9.1	9.7
85°	33.8	13.4	10.2	9.1	7.5	7.0	7.0	7.0	8.1	8.6	8.6
87.5°	12.4	10.7	9.1	7.5	6.4	6.4	6.4	6.4	7.0	8.1	8.1
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)