

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: P269990

Luminaire Tested: **GPC-AF-01-LED-E1-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-T3R-7027-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3719.8 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

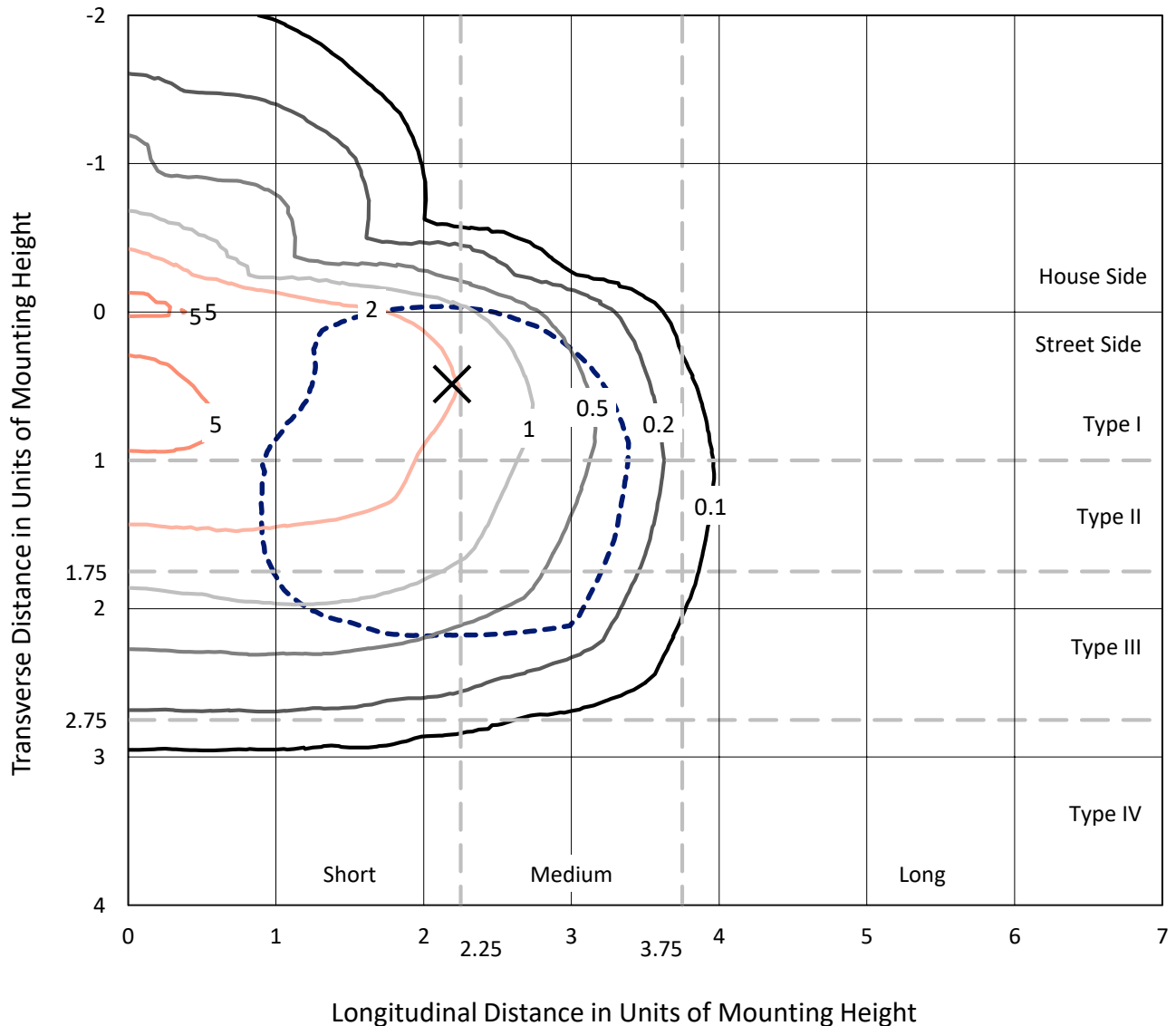
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

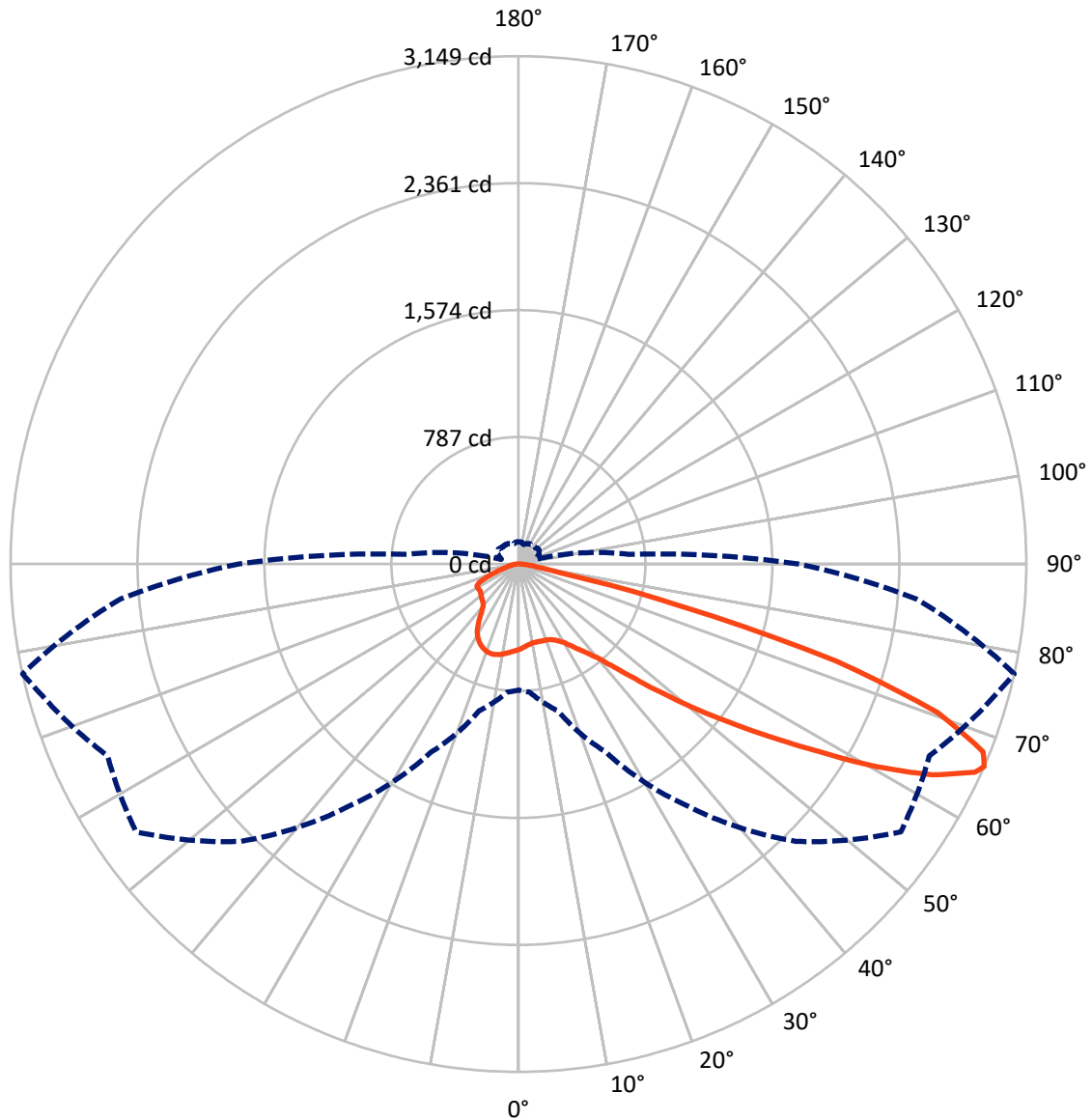
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	635.5	0.0	635.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	3084.3	0.0	3084.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	3719.8	0.0	3719.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	1.3
10°-20°	133.6	3.6
20°-30°	228.0	6.1
30°-40°	365.0	9.8
40°-50°	563.9	15.2
50°-60°	799.8	21.5
60°-70°	1070.0	28.8
70°-80°	464.7	12.5
80°-90°	47.4	1.3
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°	3719.8	100.0
0°-180°	3719.8	100.0



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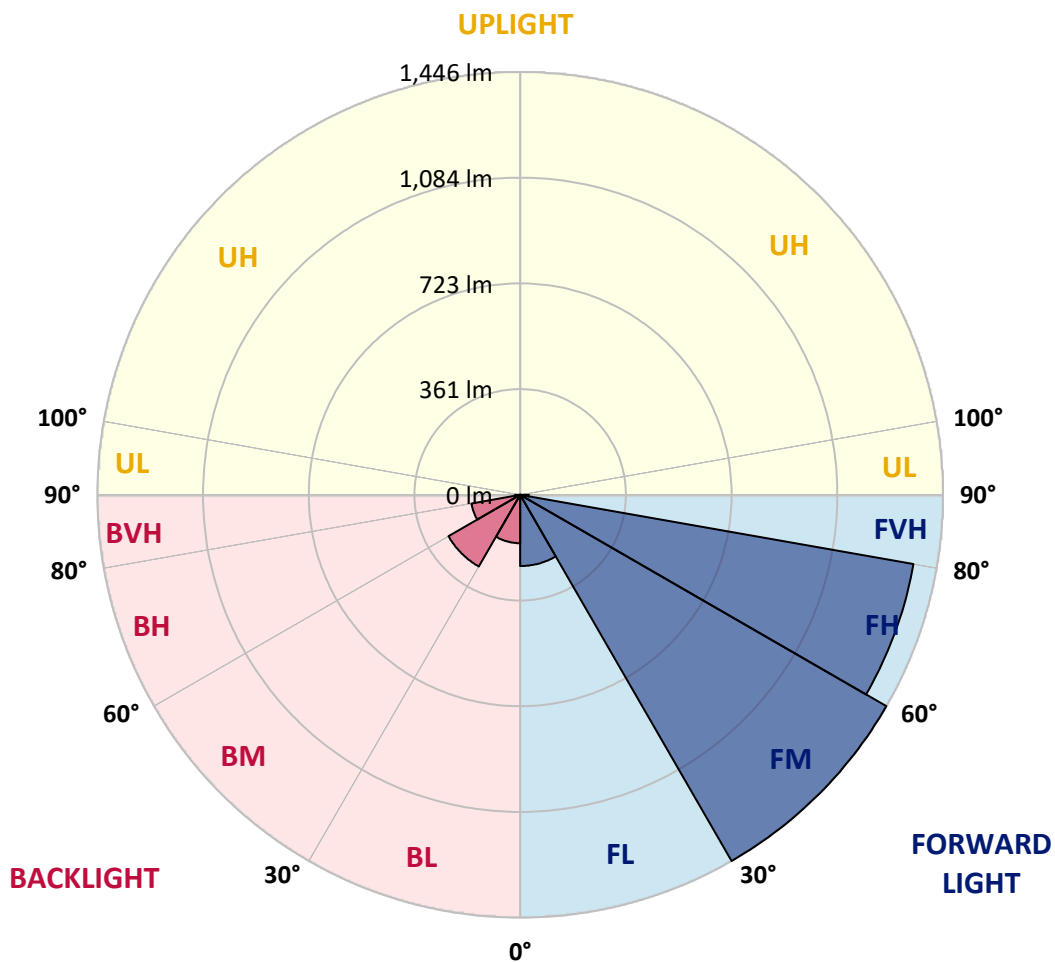
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.5	6.5			
FM (30°-60°)	1445.7	38.9			
FH (60°-80°)	1365.4	36.7			G1/1800
FVH (80°-90°)	29.7	0.8			G1/100
BL (0°-30°)	165.5	4.4	B1/500		
BM (30°-60°)	283.1	7.6	B1/1000		
BH (60°-80°)	169.2	4.5	B1/500		G1/500
BVH (80°-90°)	17.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1
2.5°	468.9	472.1	474.8	477.2	482.1	490.1	499.5	507.1	518.0	520.1	525.9
5°	425.8	425.8	428.0	431.6	438.4	450.5	463.2	480.1	503.7	509.3	524.8
7.5°	405.0	405.1	406.4	409.4	415.3	426.3	440.3	460.1	492.4	501.7	527.9
10°	412.7	411.0	408.3	406.8	407.7	414.1	427.2	449.4	485.3	497.2	535.0
12.5°	455.9	452.6	443.5	431.4	419.7	414.9	422.7	444.3	482.3	496.1	544.4
15°	526.5	525.1	508.1	483.0	454.8	431.4	426.1	442.3	482.6	497.4	555.4
17.5°	615.2	613.3	590.7	554.2	508.4	462.4	437.8	443.9	483.8	499.5	566.1
20°	704.6	698.6	674.4	630.8	572.0	504.8	457.3	448.1	485.4	501.9	577.4
22.5°	771.5	766.6	744.7	702.4	634.6	553.9	483.5	455.0	490.6	508.5	591.3
25°	830.2	830.5	808.8	768.0	697.8	605.8	517.2	473.9	503.6	522.2	610.3
27.5°	902.6	898.5	878.3	837.7	760.3	658.4	558.0	499.6	523.0	541.7	635.2
30°	989.6	986.6	963.2	917.1	829.8	714.8	604.6	529.7	547.8	567.4	667.9
32.5°	1091.6	1090.3	1066.0	1006.7	910.0	781.3	659.3	569.4	585.1	605.3	714.8
35°	1211.5	1211.6	1183.1	1111.8	997.6	858.6	721.2	620.5	630.4	651.5	770.7
37.5°	1285.4	1294.3	1283.6	1210.9	1096.9	945.0	801.7	688.5	682.2	703.5	830.7
40°	1301.1	1312.1	1346.0	1309.1	1208.0	1040.3	873.2	753.7	745.8	771.7	907.7
42.5°	1278.9	1294.1	1365.9	1391.8	1325.9	1157.7	969.1	850.4	840.5	875.5	1003.8
45°	1265.8	1277.1	1360.0	1435.0	1428.2	1290.4	1091.4	972.1	968.5	1014.2	1114.4
47.5°	1243.0	1253.1	1332.9	1445.0	1488.3	1412.0	1238.0	1120.8	1128.0	1188.2	1239.4
50°	1255.3	1259.6	1302.7	1419.4	1505.6	1501.2	1402.1	1293.1	1317.6	1392.7	1381.0
52.5°	1253.6	1264.5	1299.2	1377.6	1508.1	1556.1	1563.6	1485.2	1537.0	1623.1	1537.9
55°	1013.5	1033.5	1257.8	1367.1	1516.1	1610.1	1707.3	1687.6	1784.4	1884.6	1715.0
57.5°	967.7	980.4	1104.8	1389.1	1559.0	1713.2	1867.2	1910.5	2072.2	2188.7	1930.8
60°	958.9	974.4	1103.3	1416.3	1646.0	1881.1	2104.4	2180.2	2422.5	2550.1	2181.2
62.5°	930.9	947.7	1092.9	1412.8	1769.5	2113.2	2407.8	2467.1	2754.7	2878.8	2390.5
65°	842.3	858.1	1008.3	1356.0	1852.8	2360.9	2767.1	2730.0	3016.9	3110.2	2495.0
66°	781.6	797.1	941.8	1289.2	1833.5	2431.4	2894.3	2811.4	3075.5	3148.6	2474.6
67.5°	670.8	682.8	812.3	1139.6	1730.8	2450.9	3001.4	2872.6	3081.7	3107.5	2358.1
70°	423.8	427.2	527.9	786.6	1310.1	2125.6	2838.6	2720.7	2827.7	2757.6	1976.8
72.5°	183.9	182.6	253.4	400.3	741.7	1426.2	2296.1	2245.0	2218.1	2058.5	1383.7
75°	102.2	103.8	131.6	185.8	301.4	700.6	1502.1	1437.4	1213.6	1035.6	627.5
77.5°	82.0	84.0	109.1	131.8	135.4	244.2	702.8	572.0	344.3	276.3	174.4
80°	64.9	68.5	95.3	102.6	91.2	100.7	227.1	181.5	136.3	125.0	90.3
82.5°	51.4	53.8	81.7	77.8	63.8	67.8	108.8	106.0	88.7	80.7	52.2
85°	36.9	41.5	67.2	58.5	41.9	45.8	72.3	69.3	50.8	41.5	23.0
87.5°	15.1	19.8	47.5	38.8	23.4	21.3	36.0	34.0	24.1	17.5	11.4
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°	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1
2.5°	529.6	533.9	539.3	542.5	544.4	545.6	547.4	547.2	547.8	548.1	548.8
5°	533.1	540.2	548.1	550.1	550.1	548.1	546.3	543.0	541.9	541.5	541.9
7.5°	542.1	549.9	556.8	554.3	549.0	541.4	531.3	522.5	517.9	516.2	515.8
10°	553.9	563.1	565.9	556.6	541.1	522.5	502.7	488.3	480.1	477.7	477.0
12.5°	567.9	576.6	572.8	553.1	524.5	494.3	466.9	443.9	426.8	421.2	420.9
15°	583.4	590.1	576.6	542.1	499.5	455.3	406.4	366.7	345.2	338.3	337.9
17.5°	597.7	601.2	574.3	523.3	462.7	391.0	326.3	295.6	288.3	290.1	290.3
20°	610.0	610.0	566.7	496.0	405.0	306.5	265.5	265.0	270.3	275.6	276.7
22.5°	623.7	615.5	553.1	457.4	323.0	250.7	244.9	249.8	255.7	261.5	262.5
25°	640.3	619.9	534.3	399.1	254.0	227.8	230.1	234.1	237.2	240.7	241.4
27.5°	658.9	625.5	509.5	318.8	220.4	213.3	215.1	216.5	216.2	217.6	218.0
30°	681.3	632.0	475.7	249.2	206.5	201.1	197.8	196.6	196.6	199.0	199.9
32.5°	711.1	641.7	427.0	213.5	199.9	192.2	182.0	177.5	179.3	186.9	188.7
35°	743.9	652.1	360.9	201.4	198.4	188.3	172.5	164.0	164.2	171.3	173.6
37.5°	779.9	665.3	288.7	199.2	201.6	188.5	167.4	155.8	150.9	150.9	151.9
40°	825.7	678.8	233.7	200.7	208.2	190.5	164.7	149.2	135.9	136.3	136.9
42.5°	885.5	690.3	204.3	204.1	216.3	193.3	164.5	140.7	128.9	136.9	144.1
45°	951.9	696.1	191.2	207.1	222.9	195.1	161.7	139.1	129.8	153.4	167.2
47.5°	1028.4	692.9	184.1	208.0	224.4	195.1	158.6	142.6	136.1	177.7	193.7
50°	1112.2	683.3	177.0	206.0	223.9	194.8	161.5	145.9	138.2	181.8	193.0
52.5°	1210.8	675.0	169.6	201.4	220.3	192.7	165.1	144.4	131.2	165.4	173.2
55°	1323.4	677.4	161.3	194.9	214.4	189.2	163.9	138.9	123.5	145.7	150.5
57.5°	1467.0	704.6	151.5	186.7	206.5	183.0	159.4	136.3	121.4	132.2	134.9
60°	1627.5	752.2	139.1	178.5	196.6	173.2	156.0	137.4	122.3	131.2	132.5
62.5°	1745.2	779.6	128.6	166.2	183.3	162.2	151.9	139.0	125.1	134.8	134.4
65°	1777.2	734.4	115.5	148.5	165.2	150.7	146.6	140.8	126.4	137.8	136.3
66°	1732.6	685.4	109.7	140.2	156.0	145.2	144.0	140.7	125.9	138.2	135.6
67.5°	1623.6	585.2	99.6	128.1	141.6	136.7	139.7	139.0	124.4	137.8	134.0
70°	1324.2	399.3	85.2	106.7	117.8	120.5	131.6	133.4	119.8	131.6	123.5
72.5°	925.3	243.3	75.4	82.7	95.3	102.6	120.6	125.7	113.7	115.0	107.2
75°	447.1	129.1	68.5	64.1	74.0	85.8	107.2	115.2	104.1	96.2	93.3
77.5°	139.3	79.0	58.0	51.7	58.0	69.3	89.7	100.9	92.6	80.5	79.4
80°	74.9	58.0	44.6	41.5	45.9	54.3	70.4	84.3	79.6	72.3	64.5
82.5°	49.3	37.5	33.1	32.2	34.9	41.5	52.5	69.8	69.8	61.9	44.9
85°	25.5	23.0	22.6	22.6	24.4	27.6	35.8	53.8	57.3	32.7	27.0
87.5°	12.7	13.1	12.2	12.8	13.7	13.6	17.1	27.0	32.2	19.9	16.4
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)