

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: P594044

Luminaire Tested: **ISC-PA1B-727-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1B-727-U-T4W-HSS
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3308 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

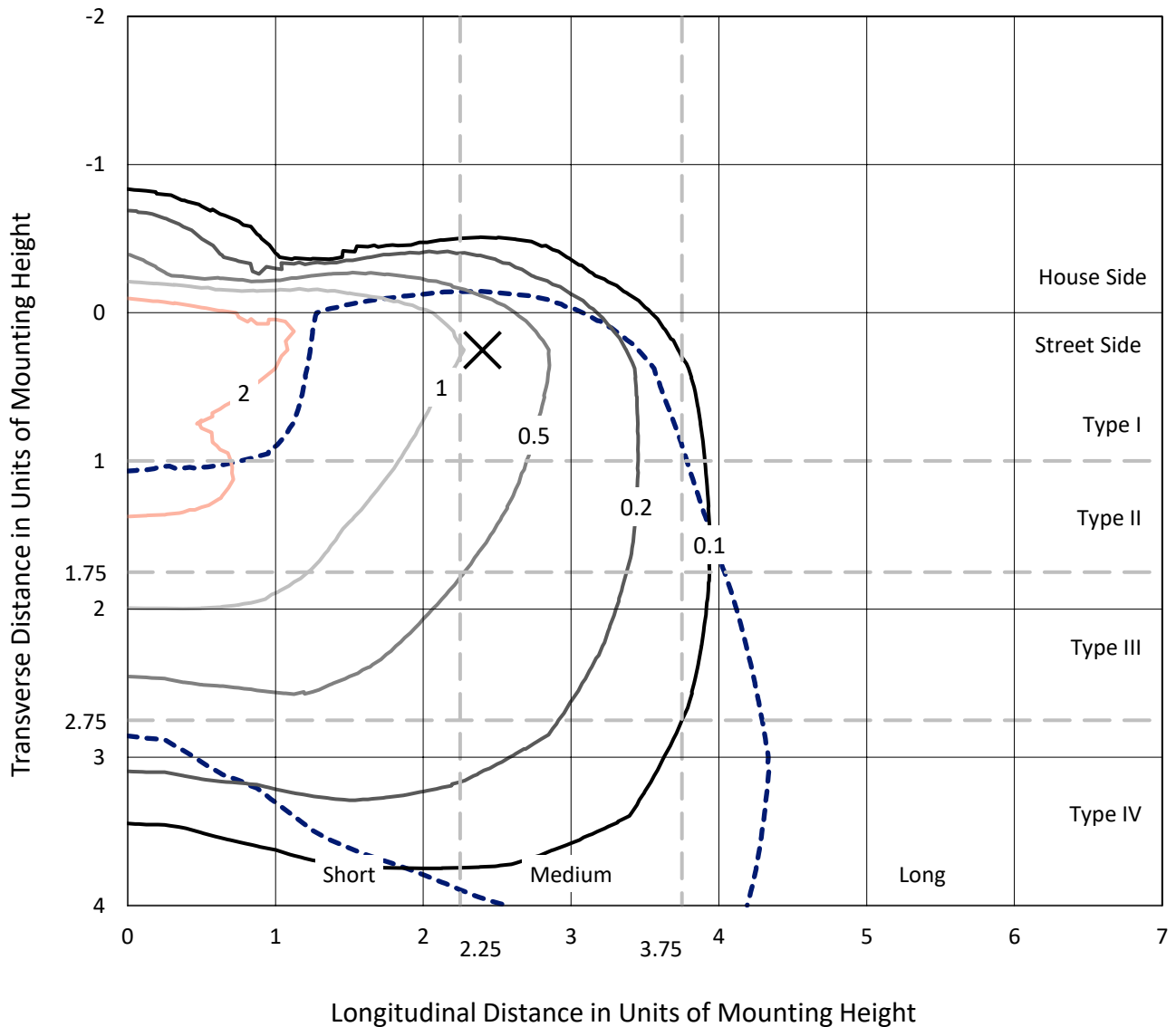
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

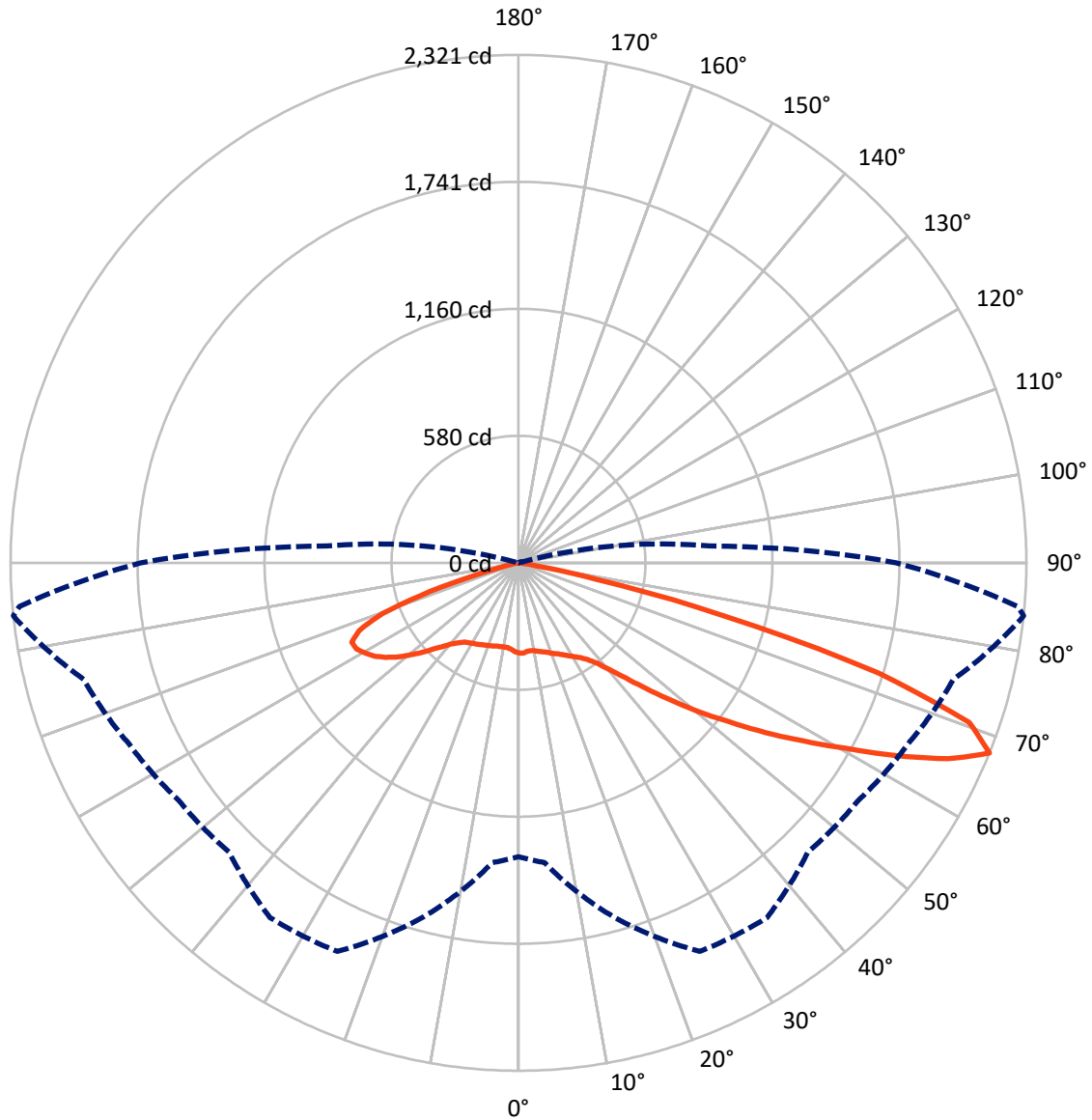
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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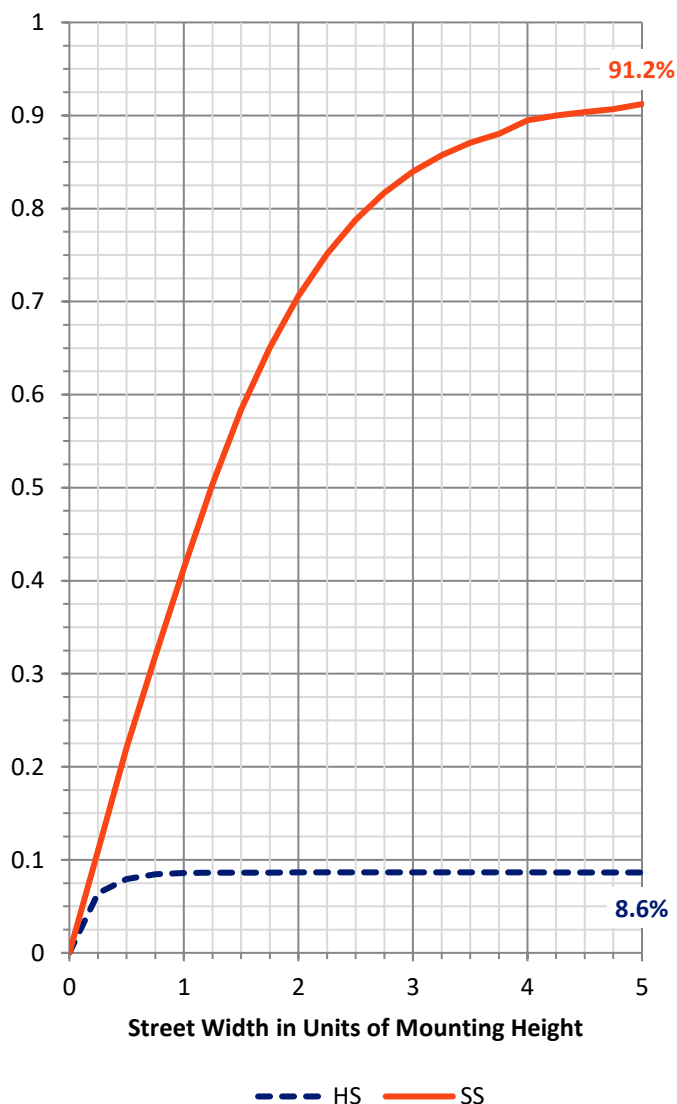
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	288.0	0.0	288.0
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	3020.0	0.0	3020.0
	% Fixture	91.3	0.0	91.3
Total	Lumens	3308.0	0.0	3308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	1.1
10°-20°	96.7	2.9
20°-30°	154.8	4.7
30°-40°	222.8	6.7
40°-50°	382.4	11.6
50°-60°	668.1	20.2
60°-70°	956.7	28.9
70°-80°	719.1	21.7
80°-90°	70.6	2.1
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°	3308.0	100.0
0°-180°	3308.0	100.0

Coefficient of Utilization

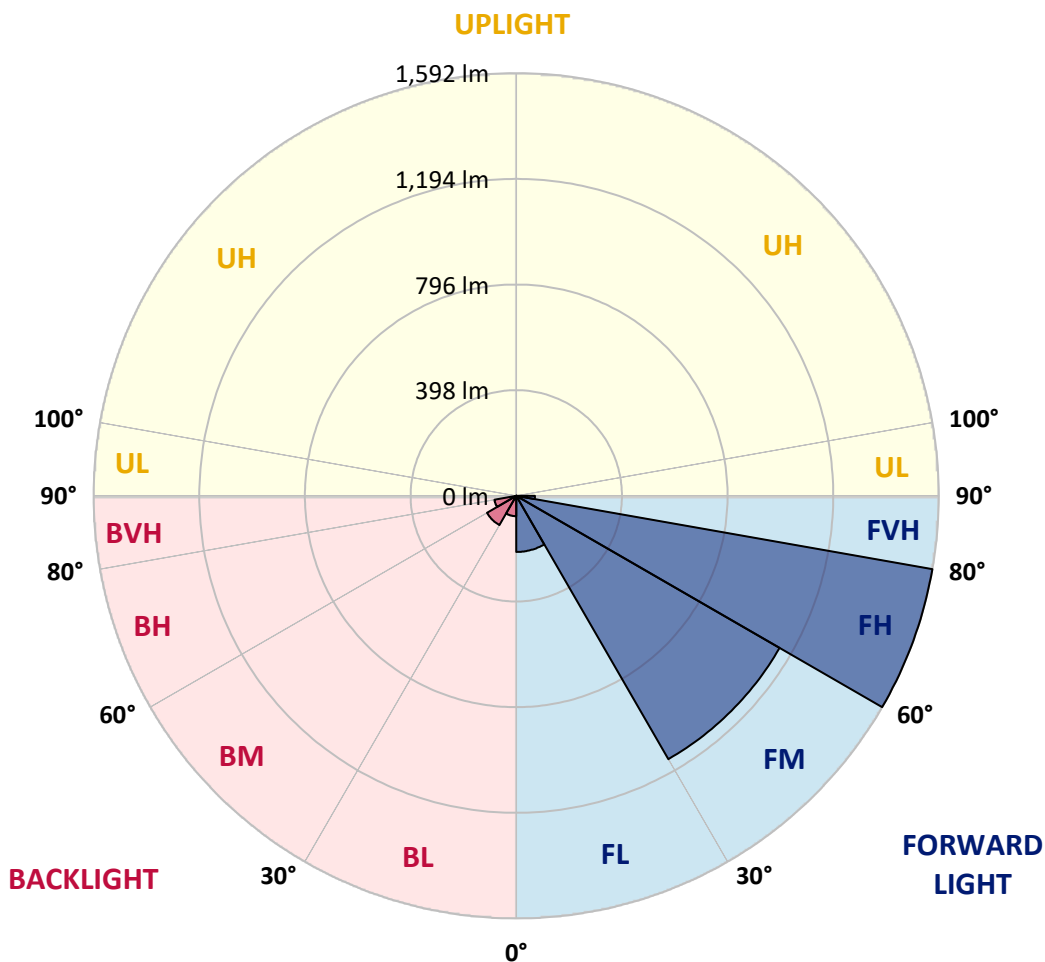


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.5	6.4			
FM (30°-60°)	1145.9	34.6			
FH (60°-80°)	1592.3	48.1			G1/1800
FVH (80°-90°)	70.4	2.1			G1/100
BL (0°-30°)	76.9	2.3	B0/110		
BM (30°-60°)	127.4	3.9	B0/220		
BH (60°-80°)	83.5	2.5	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	412.1	412.1	412.1	412.1	412.1	412.1	412.1	412.1	412.1	412.1	412.1
2.5°	435.6	437.8	438.9	433.4	433.4	428.9	422.2	420.0	416.6	413.3	412.1
5°	457.9	461.3	460.2	453.5	450.1	441.2	432.2	423.3	414.4	406.6	406.6
7.5°	483.6	484.7	481.4	470.2	463.5	451.2	437.8	427.8	416.6	405.4	403.2
10°	506.0	504.8	500.4	489.2	476.9	461.3	446.8	435.6	422.2	408.8	407.7
12.5°	521.6	522.7	517.1	501.5	489.2	471.3	456.8	445.6	430.0	415.5	412.1
15°	535.0	538.3	531.6	516.0	498.1	482.5	471.3	456.8	438.9	422.2	420.0
17.5°	547.3	548.4	542.8	524.9	508.2	494.8	482.5	469.1	451.2	430.0	427.8
20°	554.0	557.3	554.0	531.6	516.0	506.0	495.9	482.5	462.4	442.3	440.1
22.5°	558.5	561.8	560.7	536.1	522.7	514.9	506.0	493.7	474.7	451.2	449.0
25°	560.7	562.9	565.2	540.6	529.4	526.1	518.2	507.1	489.2	464.6	462.4
27.5°	564.0	566.3	568.5	546.2	541.7	538.3	536.1	527.2	506.0	480.3	476.9
30°	569.6	573.0	575.2	556.2	556.2	559.6	559.6	547.3	523.8	497.0	494.8
32.5°	576.3	577.4	581.9	566.3	571.9	579.7	577.4	565.2	540.6	516.0	512.7
35°	594.2	594.2	602.0	581.9	588.6	595.3	597.5	588.6	566.3	541.7	540.6
37.5°	637.8	637.8	644.5	612.1	610.9	617.6	625.5	625.5	603.1	580.8	578.6
40°	736.0	736.0	736.0	661.2	648.9	656.7	669.0	675.7	656.7	641.1	641.1
42.5°	900.2	901.3	884.6	751.7	699.2	712.6	726.0	740.5	730.5	719.3	717.1
45°	1070.0	1064.4	1062.2	884.6	788.5	781.8	798.6	823.2	826.5	819.8	824.3
47.5°	1186.2	1191.7	1195.1	1049.9	913.6	867.8	883.5	918.1	938.2	937.1	943.8
50°	1299.0	1302.3	1305.7	1231.9	1078.9	976.2	986.2	1033.1	1061.1	1070.0	1074.5
52.5°	1397.2	1388.3	1402.8	1392.8	1254.3	1100.1	1100.1	1153.8	1204.0	1207.4	1206.3
55°	1426.3	1431.9	1475.4	1505.6	1434.1	1252.0	1229.7	1286.7	1340.3	1368.2	1368.2
57.5°	1491.1	1496.6	1549.1	1617.3	1564.8	1401.7	1368.2	1424.1	1482.1	1535.7	1543.6
60°	1575.9	1577.1	1632.9	1736.8	1664.2	1536.9	1508.9	1572.6	1630.7	1722.3	1748.0
62.5°	1621.7	1626.2	1703.3	1839.5	1789.3	1655.2	1648.5	1706.6	1781.5	1942.3	1965.7
65°	1551.4	1580.4	1748.0	1901.0	1890.9	1765.8	1789.3	1836.2	1922.2	2157.9	2180.2
67.5°	1342.5	1374.9	1674.2	1959.0	1979.2	1869.7	1894.3	1962.4	2057.3	2320.9	2289.6
70°	1236.4	1263.2	1495.5	1991.4	2052.9	1985.9	1997.0	2060.7	2088.6	2184.7	2151.2
72.5°	937.1	965.0	1265.5	1880.9	2116.5	2107.6	2079.7	2027.2	1861.9	1718.9	1637.4
75°	414.4	446.8	842.1	1469.8	1959.0	2176.8	2029.4	1735.7	1336.9	976.2	904.7
77.5°	183.2	202.2	326.1	816.5	1472.1	1884.2	1605.0	1157.1	671.3	363.0	337.3
80°	59.2	61.4	102.8	285.9	752.8	1247.6	982.9	556.2	206.6	84.9	79.3
82.5°	23.5	25.7	49.1	120.6	311.6	495.9	482.5	201.0	60.3	22.3	22.3
85°	6.7	7.8	24.6	63.7	110.6	139.6	170.9	67.0	32.4	6.7	6.7
87.5°	2.2	2.2	8.9	20.1	21.2	14.5	32.4	25.7	20.1	2.2	2.2
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°	412.1	412.1	412.1	412.1	412.1	412.1	412.1	412.1	412.1	412.1	412.1
2.5°	409.9	407.7	402.1	397.6	395.4	392.0	387.6	385.3	385.3	384.2	380.9
5°	402.1	398.7	388.7	382.0	376.4	364.1	355.2	344.0	332.8	329.5	332.8
7.5°	398.7	392.0	378.6	365.2	341.8	309.4	288.2	264.7	256.9	246.8	248.0
10°	399.9	392.0	373.0	342.9	297.1	249.1	215.6	184.3	168.7	160.8	162.0
12.5°	403.2	394.3	367.5	312.7	246.8	188.8	137.4	112.8	108.3	108.3	108.3
15°	409.9	396.5	358.5	277.0	193.2	125.1	97.2	94.9	98.3	101.6	102.8
17.5°	416.6	403.2	345.1	240.1	140.7	93.8	90.5	90.5	93.8	97.2	98.3
20°	424.4	409.9	326.1	201.0	100.5	88.2	87.1	86.0	88.2	91.6	92.7
22.5°	436.7	416.6	303.8	155.2	87.1	84.9	82.7	81.5	82.7	86.0	87.1
25°	447.9	425.5	280.3	115.0	81.5	79.3	78.2	77.1	77.1	79.3	80.4
27.5°	461.3	435.6	254.7	86.0	74.8	73.7	72.6	71.5	70.4	72.6	73.7
30°	478.0	444.5	226.7	72.6	68.1	67.0	65.9	64.8	63.7	64.8	65.9
32.5°	499.3	456.8	194.3	65.9	62.5	59.2	58.1	58.1	57.0	57.0	58.1
35°	527.2	470.2	159.7	61.4	57.0	53.6	50.3	49.1	49.1	49.1	50.3
37.5°	568.5	494.8	126.2	57.0	52.5	46.9	43.6	40.2	40.2	40.2	40.2
40°	625.5	521.6	98.3	53.6	49.1	41.3	36.9	32.4	30.2	29.0	30.2
42.5°	713.7	561.8	75.9	49.1	46.9	36.9	30.2	24.6	20.1	19.0	20.1
45°	810.9	605.4	60.3	45.8	42.4	31.3	23.5	16.8	12.3	11.2	12.3
47.5°	933.7	660.1	51.4	41.3	36.9	25.7	16.8	8.9	5.6	6.7	6.7
50°	1052.1	713.7	46.9	38.0	32.4	21.2	10.1	4.5	2.2	3.4	3.4
52.5°	1182.8	770.7	43.6	33.5	27.9	15.6	5.6	1.1	0.0	1.1	1.1
55°	1314.6	822.0	40.2	30.2	22.3	11.2	2.2	0.0	0.0	0.0	1.1
57.5°	1457.6	865.6	36.9	25.7	16.8	6.7	1.1	0.0	0.0	0.0	0.0
60°	1577.1	899.1	33.5	22.3	11.2	3.4	0.0	0.0	0.0	0.0	0.0
62.5°	1686.5	929.3	25.7	16.8	6.7	2.2	0.0	0.0	0.0	0.0	0.0
65°	1759.1	936.0	17.9	11.2	4.5	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	1726.7	877.9	11.2	7.8	2.2	1.1	0.0	0.0	0.0	0.0	0.0
70°	1517.9	737.2	7.8	4.5	1.1	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1062.2	475.8	6.7	3.4	1.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	560.7	172.0	4.5	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	198.8	38.0	2.2	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0
80°	43.6	7.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	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)