

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: P595244

Luminaire Tested: **IST-PA1D-827-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1D-827-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4943 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

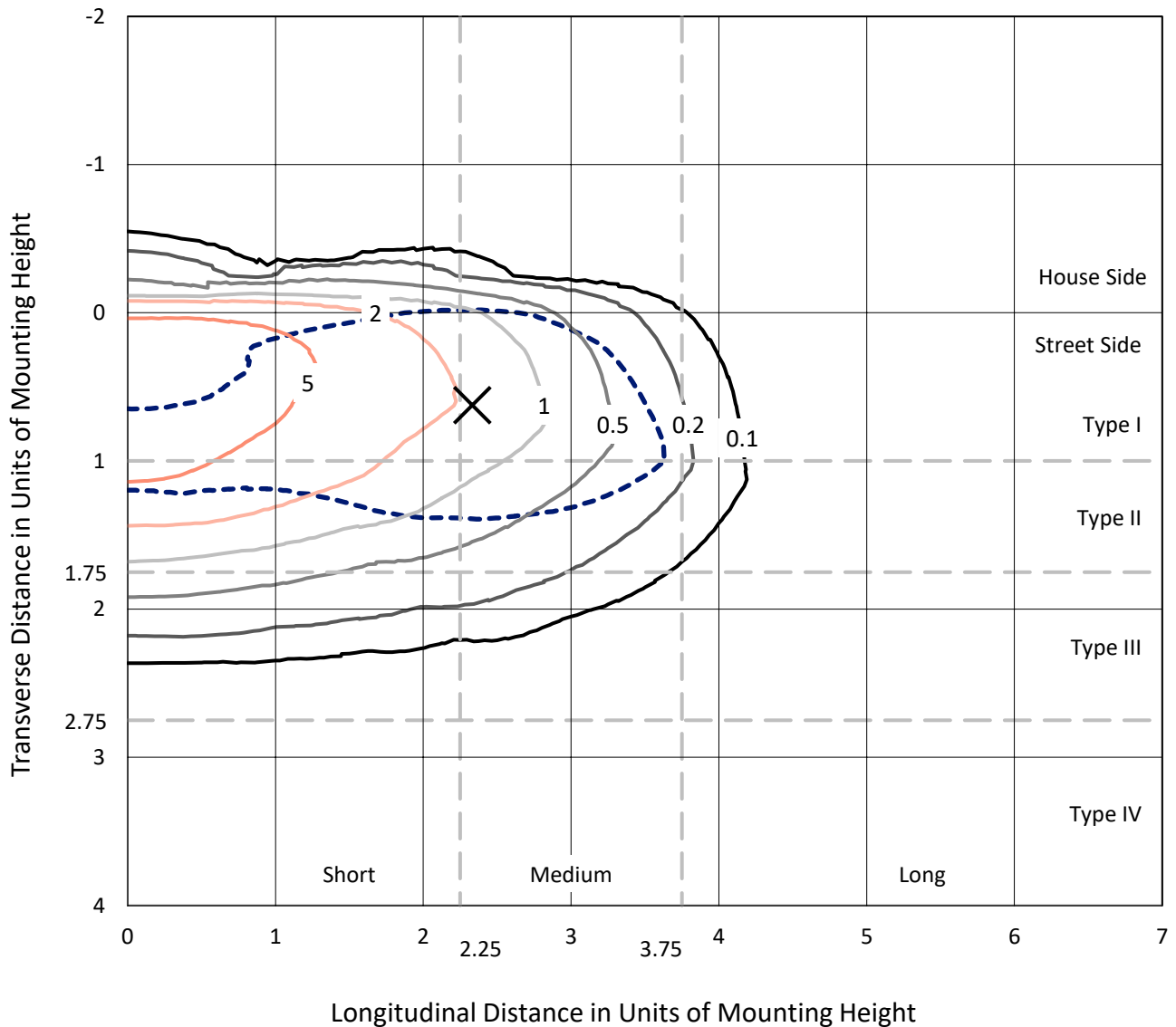
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

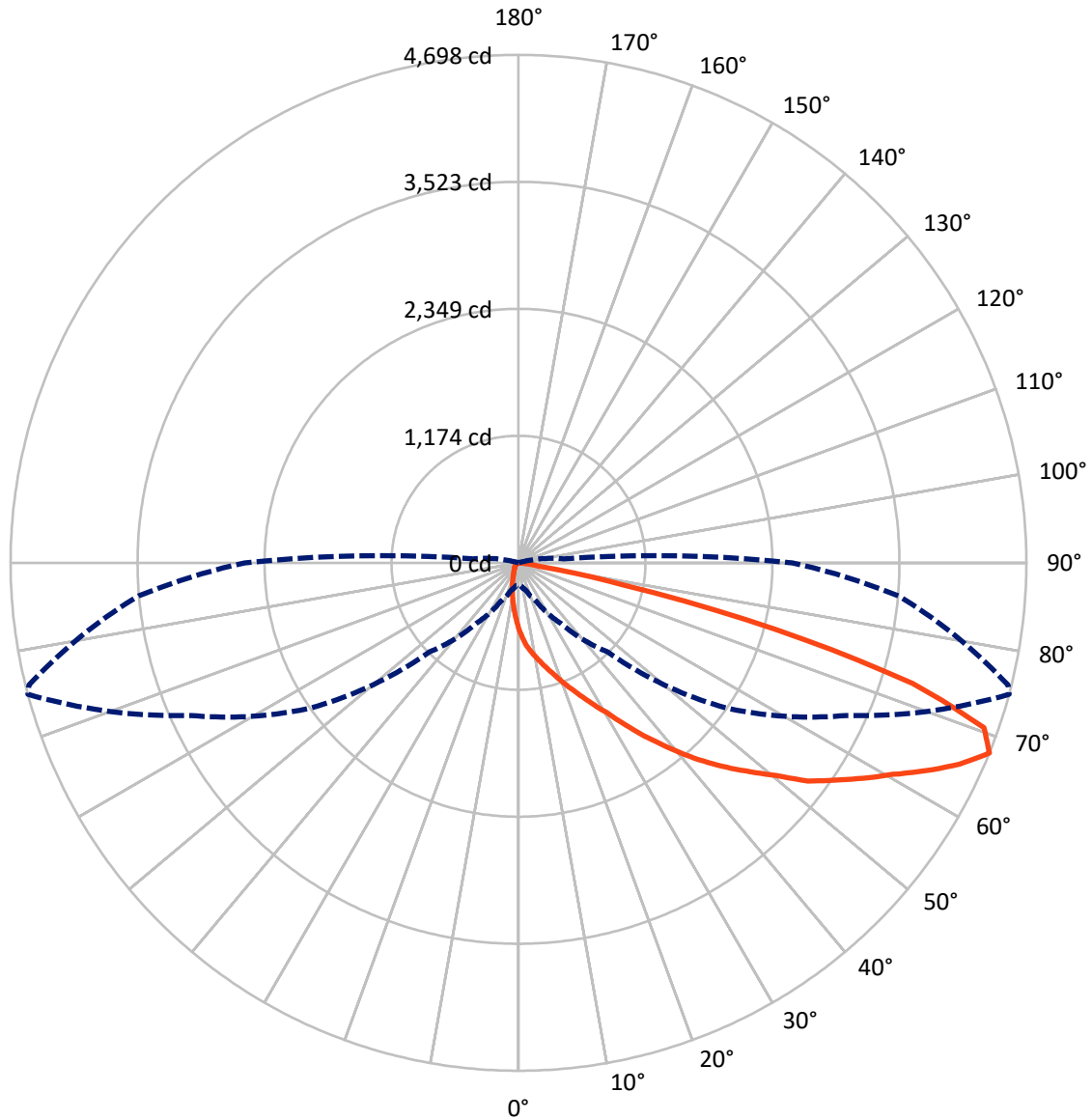
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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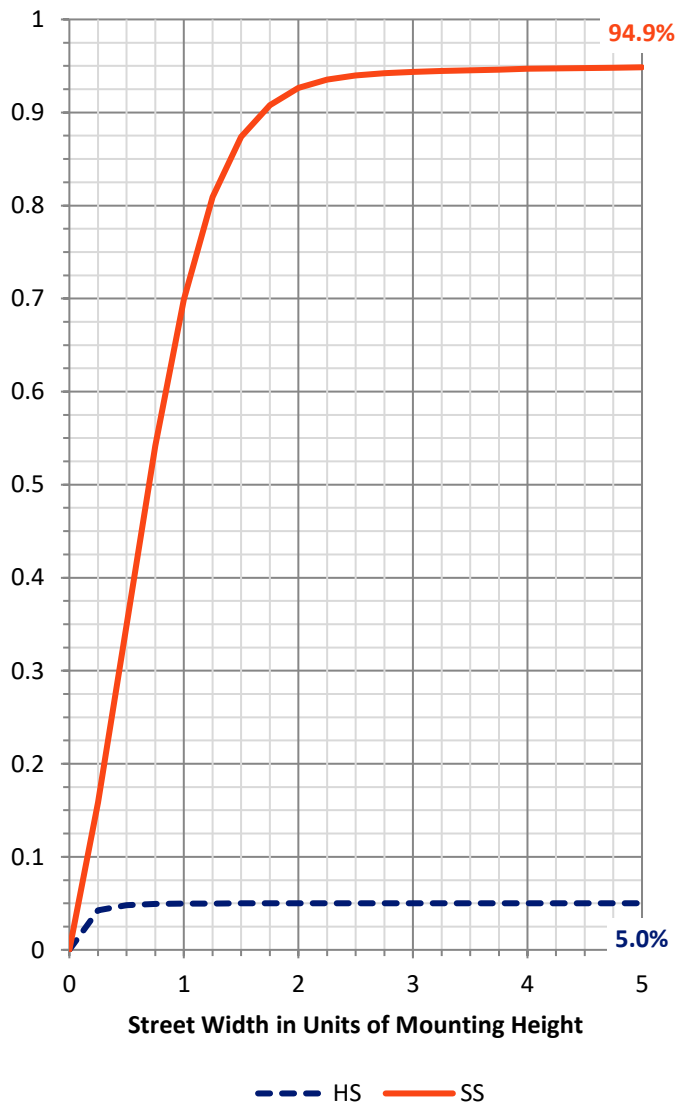
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	249.2	0.0	249.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4693.8	0.0	4693.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	4943.0	0.0	4943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	1.1
10°-20°	178.8	3.6
20°-30°	359.4	7.3
30°-40°	679.8	13.8
40°-50°	1017.0	20.6
50°-60°	1174.2	23.8
60°-70°	1040.8	21.1
70°-80°	420.7	8.5
80°-90°	16.8	0.3
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°	4943.0	100.0
0°-180°	4943.0	100.0

Coefficient of Utilization



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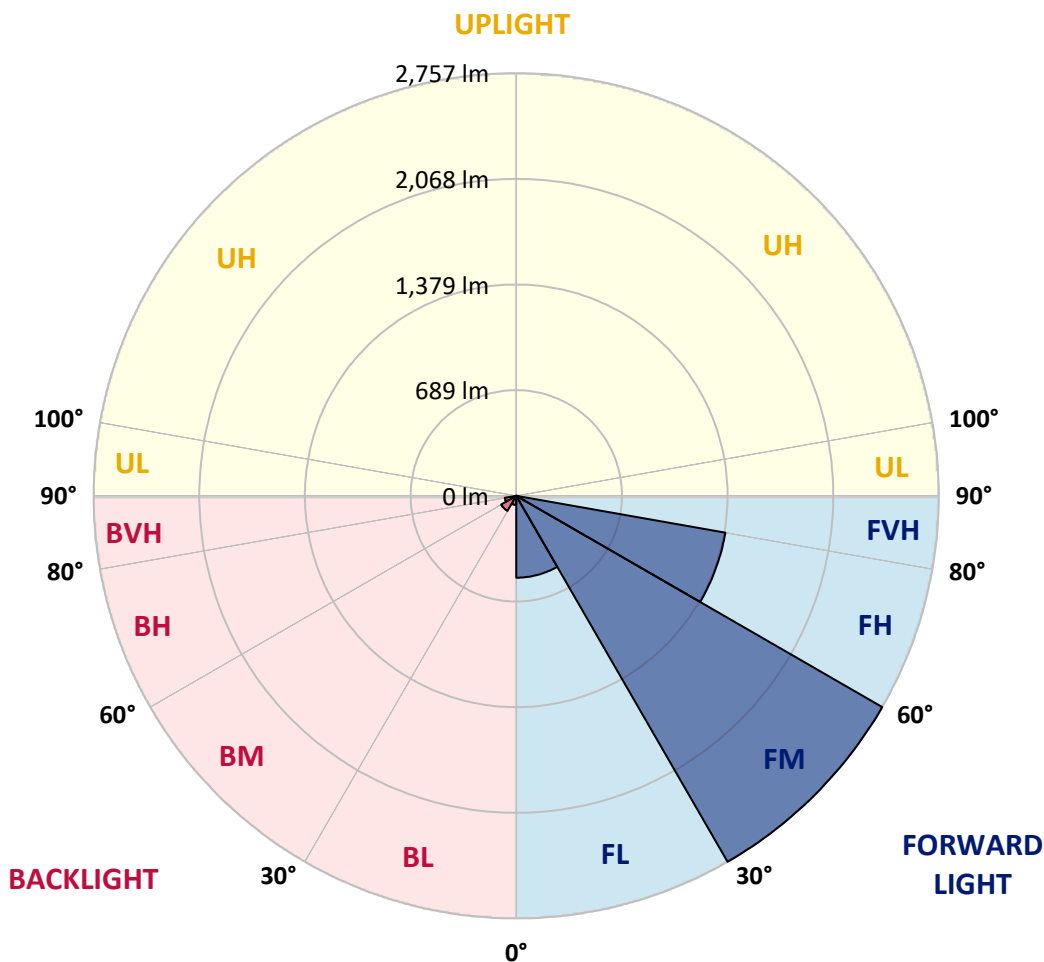
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.4	10.8			
FM (30°-60°)	2757.4	55.8			
FH (60°-80°)	1386.0	28.0			G1/1800
FVH (80°-90°)	16.1	0.3			G1/100
BL (0°-30°)	59.2	1.2	B0/110		
BM (30°-60°)	113.7	2.3	B0/220		
BH (60°-80°)	75.6	1.5	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: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3
2.5°	854.7	857.6	851.7	838.4	826.5	798.3	776.0	736.0	692.9	692.9	641.0
5°	955.6	952.6	949.6	939.3	930.4	906.6	876.9	833.9	767.1	761.2	675.1
7.5°	1004.5	1001.6	995.6	991.2	991.2	974.9	946.7	902.2	828.0	822.0	706.3
10°	1062.4	1056.5	1056.5	1044.6	1041.6	1022.3	1007.5	968.9	887.3	879.9	741.9
12.5°	1130.7	1124.7	1126.2	1115.8	1111.4	1090.6	1069.8	1032.7	951.1	943.7	783.5
15°	1169.2	1166.3	1175.2	1176.7	1179.6	1161.8	1142.5	1104.0	1022.3	1012.0	832.4
17.5°	1191.5	1191.5	1201.9	1221.2	1243.4	1233.0	1218.2	1187.0	1095.1	1089.1	884.4
20°	1234.5	1230.1	1247.9	1265.7	1293.9	1302.8	1298.3	1274.6	1182.6	1164.8	940.7
22.5°	1305.8	1299.8	1316.1	1338.4	1372.5	1375.5	1378.5	1366.6	1271.6	1253.8	1000.1
25°	1473.4	1458.6	1443.7	1440.8	1454.1	1466.0	1457.1	1466.0	1372.5	1356.2	1063.9
27.5°	1799.9	1774.6	1703.4	1624.8	1569.9	1580.3	1552.1	1568.4	1488.3	1467.5	1123.2
30°	2112.9	2087.7	2029.9	1890.4	1764.3	1707.9	1666.3	1660.4	1607.0	1583.2	1191.5
32.5°	2331.1	2314.7	2276.2	2182.7	2025.4	1881.5	1801.3	1773.2	1765.7	1728.6	1279.0
35°	2479.5	2464.6	2437.9	2362.2	2246.5	2086.2	1948.2	1885.9	1942.3	1897.8	1378.5
37.5°	2568.5	2558.1	2528.4	2476.5	2414.2	2308.8	2130.8	2031.3	2120.4	2078.8	1506.1
40°	2633.8	2607.1	2586.3	2546.2	2525.4	2491.3	2338.5	2182.7	2313.3	2270.2	1632.2
42.5°	2639.7	2627.8	2611.5	2587.8	2590.7	2613.0	2559.6	2357.8	2507.6	2467.6	1765.7
45°	2638.2	2626.3	2614.5	2590.7	2605.6	2688.7	2737.6	2541.8	2697.6	2656.0	1906.7
47.5°	2595.2	2586.3	2589.3	2589.3	2608.5	2721.3	2875.6	2728.7	2887.5	2847.4	2077.3
50°	2443.8	2452.7	2512.1	2543.3	2577.4	2722.8	2972.1	2924.6	3092.3	3064.1	2242.0
52.5°	1964.6	2015.0	2255.4	2420.1	2519.5	2693.1	3034.4	3130.8	3351.9	3308.9	2429.0
55°	1501.6	1504.6	1736.1	2118.9	2405.3	2639.7	3070.0	3270.3	3549.3	3525.5	2593.7
57.5°	1218.2	1216.7	1331.0	1675.2	2108.5	2555.1	3078.9	3372.7	3758.5	3714.0	2783.6
60°	995.6	989.7	1058.0	1270.1	1722.7	2356.3	3046.3	3455.8	3973.6	3957.3	2982.5
62.5°	719.6	725.6	816.1	980.8	1328.0	1989.8	2976.5	3481.0	4233.3	4217.0	3205.0
65°	414.0	431.8	531.2	706.3	1017.9	1556.5	2777.7	3461.7	4487.0	4485.6	3411.3
67.5°	207.7	209.2	262.6	394.7	684.0	1164.8	2338.5	3340.1	4697.7	4665.1	3530.0
70°	133.5	136.5	154.3	203.3	378.4	807.2	1786.5	2995.8	4565.7	4553.8	3356.4
72.5°	102.4	105.4	120.2	133.5	197.3	458.5	1209.3	2328.1	3811.9	3779.3	2617.4
75°	80.1	81.6	96.4	108.3	132.1	215.2	606.9	1451.2	2455.7	2371.1	1489.7
77.5°	63.8	65.3	72.7	86.1	100.9	120.2	179.5	652.9	998.6	891.8	483.7
80°	41.5	43.0	54.9	66.8	86.1	78.6	69.7	188.4	213.7	192.9	86.1
82.5°	23.7	25.2	37.1	53.4	65.3	44.5	40.1	54.9	50.4	49.0	26.7
85°	7.4	7.4	25.2	37.1	29.7	13.4	25.2	19.3	16.3	14.8	8.9
87.5°	1.5	1.5	11.9	13.4	4.5	1.5	3.0	4.5	5.9	7.4	4.5
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°	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3	614.3
2.5°	615.8	586.1	531.2	483.7	437.7	397.7	369.5	344.2	326.4	322.0	314.6
5°	620.2	562.4	457.0	368.0	290.8	228.5	192.9	169.2	157.3	149.9	149.9
7.5°	624.7	538.6	387.3	268.6	184.0	139.5	117.2	106.8	102.4	100.9	99.4
10°	633.6	520.8	327.9	192.9	126.1	105.4	96.4	92.0	89.0	87.5	87.5
12.5°	648.4	506.0	273.0	142.4	103.9	93.5	87.5	81.6	78.6	77.2	77.2
15°	667.7	495.6	225.5	114.3	95.0	84.6	77.2	71.2	66.8	65.3	65.3
17.5°	694.4	488.2	185.5	100.9	87.5	75.7	66.8	60.8	56.4	54.9	54.9
20°	721.1	488.2	152.8	93.5	80.1	66.8	57.9	50.4	46.0	44.5	44.5
22.5°	756.7	486.7	127.6	86.1	71.2	57.9	49.0	40.1	37.1	35.6	35.6
25°	786.4	486.7	109.8	78.6	62.3	50.4	40.1	32.6	29.7	28.2	28.2
27.5°	822.0	482.2	93.5	69.7	53.4	41.5	32.6	26.7	23.7	22.3	22.3
30°	853.2	476.3	83.1	62.3	46.0	34.1	26.7	20.8	19.3	19.3	19.3
32.5°	905.1	471.9	74.2	53.4	38.6	28.2	20.8	16.3	14.8	14.8	14.8
35°	967.4	471.9	68.3	46.0	32.6	23.7	16.3	13.4	11.9	11.9	11.9
37.5°	1049.1	476.3	60.8	40.1	26.7	19.3	13.4	10.4	8.9	8.9	8.9
40°	1135.1	486.7	54.9	35.6	23.7	14.8	10.4	7.4	5.9	7.4	7.4
42.5°	1237.5	497.1	49.0	31.2	19.3	11.9	7.4	4.5	3.0	4.5	4.5
45°	1338.4	507.5	46.0	26.7	16.3	8.9	4.5	3.0	1.5	3.0	3.0
47.5°	1463.0	532.7	43.0	23.7	13.4	7.4	3.0	1.5	0.0	1.5	1.5
50°	1607.0	560.9	38.6	19.3	10.4	5.9	3.0	0.0	0.0	0.0	0.0
52.5°	1745.0	584.6	34.1	16.3	8.9	4.5	1.5	0.0	0.0	0.0	0.0
55°	1883.0	599.5	29.7	13.4	7.4	4.5	1.5	0.0	0.0	0.0	0.0
57.5°	2031.3	608.4	26.7	11.9	5.9	3.0	1.5	0.0	0.0	0.0	0.0
60°	2196.0	608.4	22.3	10.4	4.5	3.0	1.5	0.0	0.0	0.0	0.0
62.5°	2378.6	590.6	20.8	8.9	4.5	3.0	1.5	0.0	0.0	0.0	0.0
65°	2526.9	526.8	17.8	7.4	4.5	3.0	1.5	0.0	0.0	0.0	0.0
67.5°	2532.9	417.0	16.3	5.9	4.5	3.0	1.5	0.0	0.0	0.0	0.0
70°	2258.4	284.9	13.4	4.5	3.0	3.0	1.5	0.0	0.0	0.0	0.0
72.5°	1690.1	152.8	11.9	4.5	3.0	1.5	1.5	0.0	0.0	0.0	0.0
75°	911.1	59.4	7.4	4.5	3.0	1.5	1.5	0.0	0.0	0.0	0.0
77.5°	265.6	29.7	4.5	3.0	3.0	1.5	1.5	0.0	0.0	0.0	0.0
80°	49.0	14.8	3.0	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	13.4	5.9	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	5.9	3.0	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.5	1.5	1.5	1.5	1.5	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)