

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: LUMARK

Report Number: P969279

Luminaire Tested: **NAV-SB5D-730-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5D-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38474.4 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

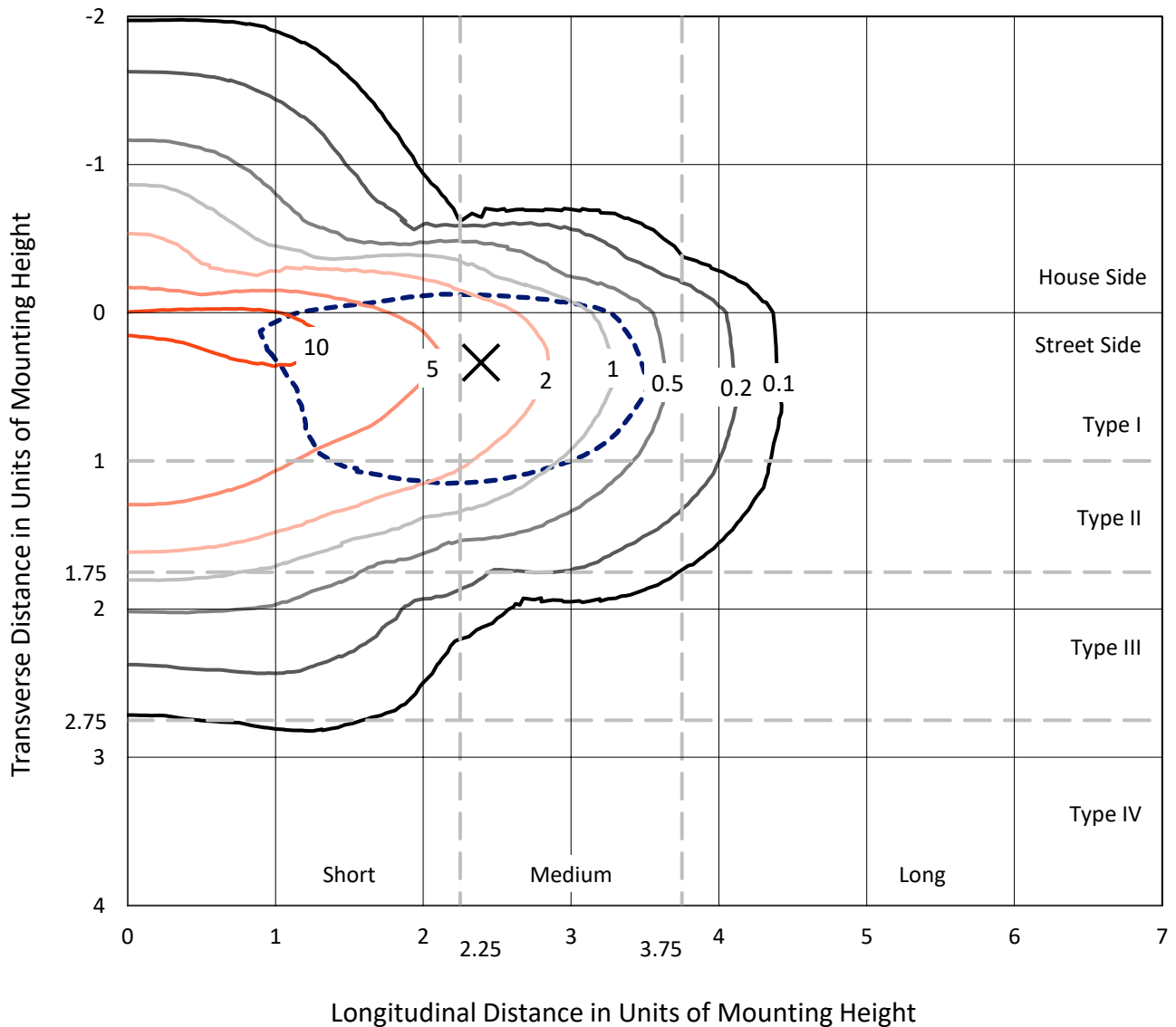
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

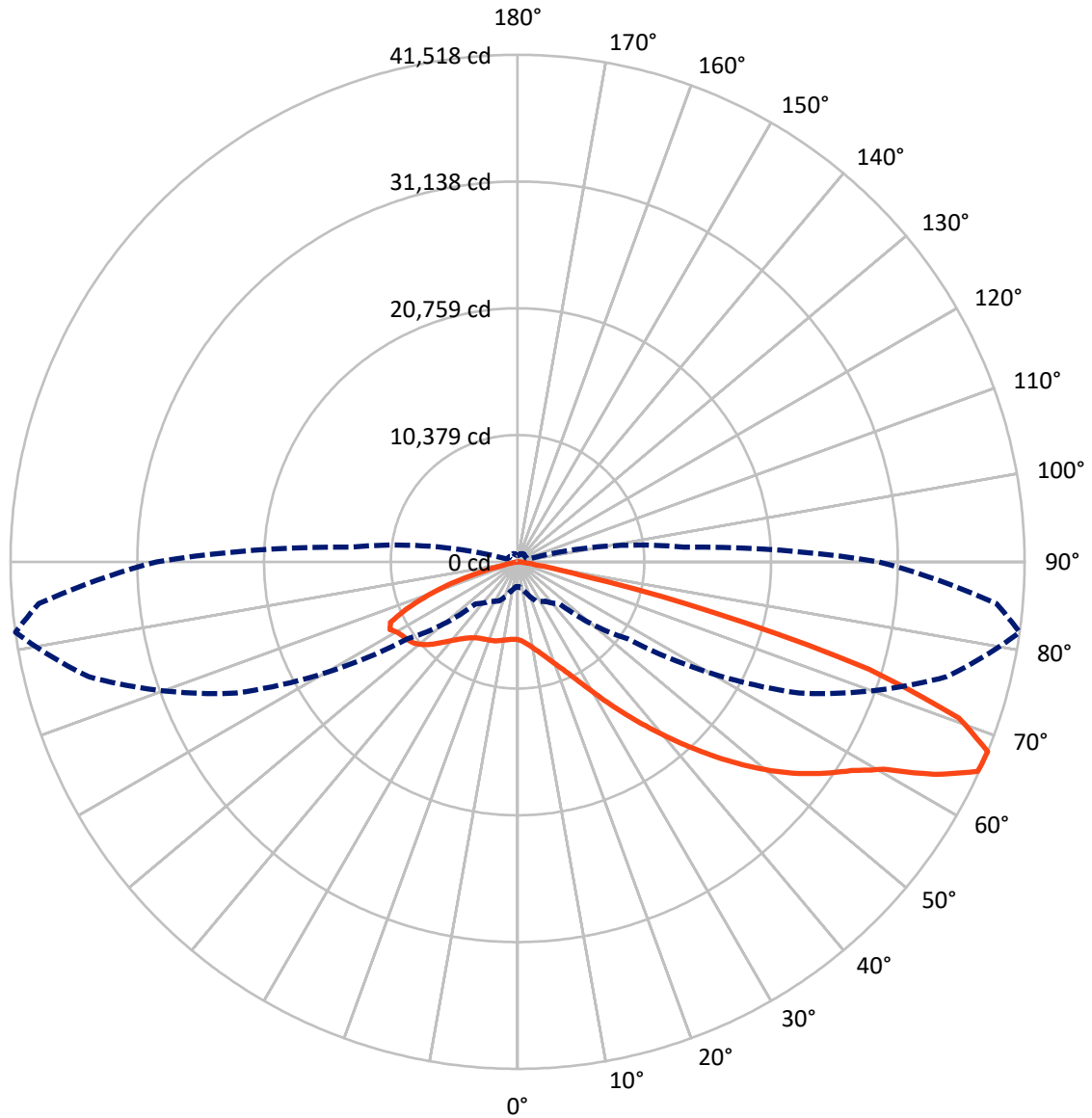
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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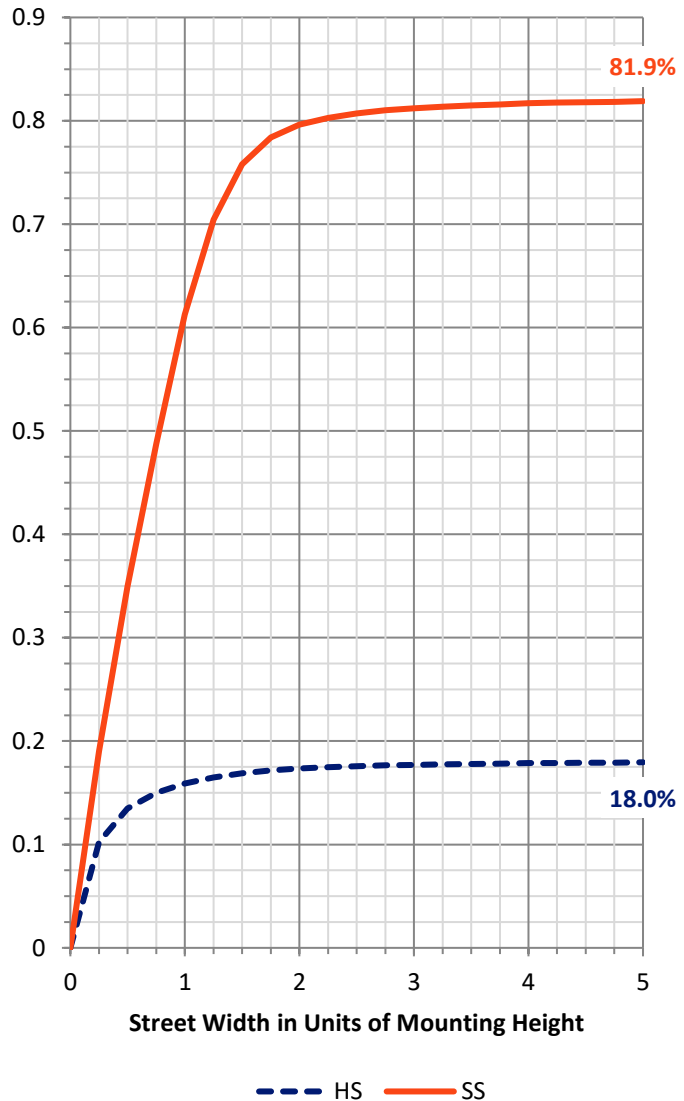
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6969.3	0.0	6969.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	31505.1	0.0	31505.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	38474.4	0.0	38474.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.9	1.5
10°-20°	1475.7	3.8
20°-30°	2363.5	6.1
30°-40°	4179.4	10.9
40°-50°	7322.8	19.0
50°-60°	9766.6	25.4
60°-70°	9092.2	23.6
70°-80°	3489.6	9.1
80°-90°	216.7	0.6
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°	38474.4	100.0
0°-180°	38474.4	100.0

Coefficient of Utilization



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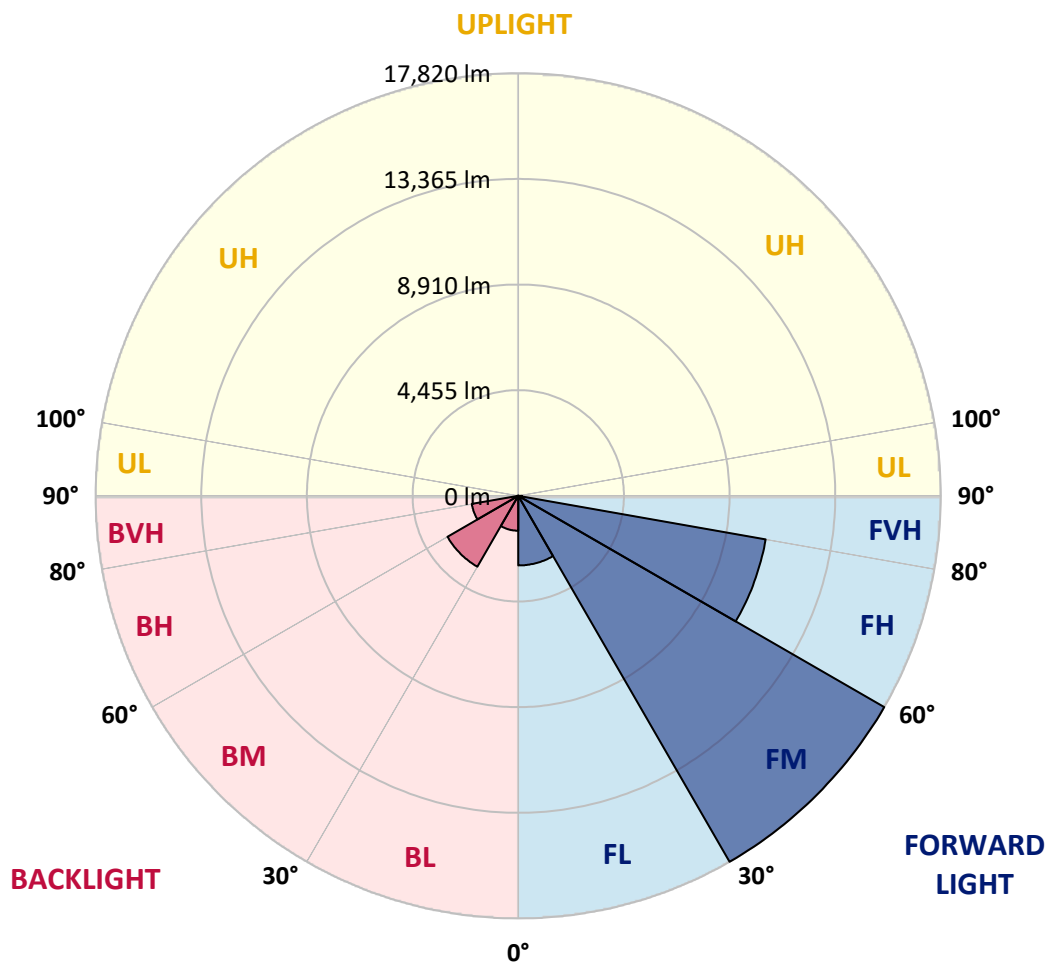
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2935.2	7.6			
FM (30°-60°)	17819.8	46.3			
FH (60°-80°)	10592.6	27.5			G4/12000
FVH (80°-90°)	157.6	0.4			G2/225
BL (0°-30°)	1471.9	3.8	B3/2500		
BM (30°-60°)	3449.1	9.0	B3/5000		
BH (60°-80°)	1989.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	59.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6373.9	6373.9	6373.9	6373.9	6373.9	6373.9	6373.9	6373.9	6373.9	6373.9	6373.9
2.5°	6736.8	6775.6	6753.4	6742.3	6723.0	6695.2	6673.1	6603.9	6531.8	6484.7	6468.1
5°	6872.5	6911.3	6908.5	6919.6	6933.4	6941.8	6936.3	6858.7	6756.2	6675.8	6628.8
7.5°	6756.2	6800.5	6836.5	6891.9	6988.9	7091.4	7141.2	7124.6	7019.3	6908.5	6850.4
10°	6426.5	6473.6	6559.5	6689.7	6894.7	7116.3	7301.9	7387.8	7321.3	7199.4	7119.0
12.5°	5822.6	5869.8	6038.7	6321.3	6664.8	7049.8	7404.4	7634.3	7650.9	7529.0	7434.8
15°	5144.0	5191.1	5371.1	5725.8	6249.2	6867.0	7459.7	7894.7	8041.4	7936.3	7822.7
17.5°	4723.0	4764.5	4900.2	5185.6	5731.3	6501.4	7440.4	8171.7	8506.9	8423.8	8288.0
20°	4595.5	4631.6	4695.2	4894.7	5349.0	6121.8	7313.0	8432.1	9008.2	8961.2	8808.7
22.5°	4731.3	4764.5	4783.9	4872.5	5157.8	5872.5	7152.2	8697.9	9589.9	9595.4	9409.9
25°	5044.2	5077.5	5055.4	5110.8	5235.4	5794.9	7091.4	9011.0	10321.2	10382.2	10171.7
27.5°	5559.5	5562.3	5509.7	5506.9	5526.3	5911.3	7155.0	9346.2	11243.6	11357.2	11096.9
30°	6592.7	6551.2	6349.0	6130.1	6030.4	6260.3	7332.3	9742.3	12332.3	12534.5	12207.6
32.5°	8185.5	8124.6	7753.4	7229.8	6703.5	6822.6	7650.9	10193.8	13517.9	13883.5	13484.7
35°	9914.0	9897.4	9509.6	8731.3	7811.5	7623.2	8168.9	10786.6	14811.5	15393.2	14919.5
37.5°	11520.7	11512.4	11290.8	10373.9	9254.7	8739.6	8999.9	11562.2	16196.5	17038.7	16479.1
40°	12988.8	13013.7	12792.1	11972.2	10844.8	10171.7	10130.1	12520.7	17736.7	18830.9	18166.1
42.5°	14257.5	14285.2	14060.8	13454.2	12415.4	11756.1	11517.9	13695.1	19240.8	20756.0	19969.4
45°	15119.0	15290.7	15257.5	14772.7	14027.5	13343.3	13185.5	15168.9	20955.5	22797.5	21875.1
47.5°	15362.7	15520.7	15769.9	15836.5	15382.2	14709.1	14897.4	16944.5	22689.6	24841.9	23792.0
50°	14761.6	14908.4	15426.5	16116.2	16432.0	16224.2	16562.2	18847.5	24465.2	26880.6	25672.9
52.5°	13576.0	13725.7	14379.4	15470.7	16758.9	17412.6	18232.5	20722.8	26185.4	28811.4	27454.0
55°	11861.4	12019.3	12858.6	14094.1	16135.6	17902.9	19625.9	22595.4	27761.5	30548.2	29060.7
57.5°	9529.0	9645.4	10517.9	12246.4	14567.7	17415.4	20653.5	24639.7	29246.3	32254.6	30653.4
60°	6210.5	6313.0	7326.8	9254.7	11969.4	15786.5	20858.5	26919.5	31218.5	34473.4	32800.3
62.5°	4130.1	4199.4	4800.5	6216.0	8429.3	12659.2	19659.1	28739.4	34110.5	38334.9	36481.7
65°	2833.8	2903.0	3504.2	4490.2	5445.9	8373.8	16210.4	28498.4	36731.0	41401.3	39210.1
67.5°	2022.1	2080.3	2590.0	3520.8	3941.8	4864.2	10988.8	25418.1	36354.3	41517.6	39357.0
70°	1448.7	1481.9	1903.0	2742.4	3132.9	2922.4	6110.7	19440.3	31830.8	38337.7	36359.8
72.5°	1013.8	1024.9	1321.3	2088.6	2523.5	2132.9	2908.5	12961.1	24074.6	30091.1	28188.1
75°	687.0	700.8	889.2	1531.9	2024.9	1628.8	1540.2	6950.1	14132.8	16656.4	14930.7
77.5°	421.1	426.6	573.4	1047.0	1515.3	1241.0	991.7	2944.6	5468.1	5368.3	4576.1
80°	238.2	238.2	365.6	651.0	1033.2	800.5	695.3	1252.0	1731.3	1520.8	1340.7
82.5°	132.9	135.7	265.9	404.5	684.2	473.7	382.2	578.9	747.9	662.0	576.2
85°	55.4	61.0	163.4	191.2	326.9	235.4	155.1	243.7	277.0	246.5	180.1
87.5°	5.5	8.3	49.8	36.0	38.7	47.0	22.1	47.0	38.7	38.7	27.7
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°	6373.9	6373.9	6373.9	6373.9	6373.9	6373.9	6373.9	6373.9	6373.9	6373.9	6373.9
2.5°	6415.5	6373.9	6268.7	6146.7	5986.1	5908.5	5803.2	5731.3	5670.3	5675.8	5620.5
5°	6540.1	6434.8	6199.4	5905.7	5540.1	5279.8	5002.7	4811.6	4656.5	4623.3	4548.4
7.5°	6711.8	6545.6	6132.9	5603.9	4986.1	4518.0	4099.7	3831.0	3639.9	3578.9	3518.0
10°	6933.4	6692.4	6047.1	5224.3	4335.1	3739.6	3290.9	3080.3	2950.2	2905.8	2872.6
12.5°	7191.1	6861.5	5933.4	4761.7	3664.8	3091.4	2806.0	2700.8	2659.3	2645.4	2637.1
15°	7515.2	7072.0	5761.7	4213.3	3096.9	2695.2	2573.4	2559.5	2565.1	2559.5	2556.8
17.5°	7900.2	7301.9	5481.9	3648.2	2714.6	2493.0	2448.7	2459.8	2473.6	2470.9	2465.3
20°	8321.3	7529.0	5124.6	3146.7	2454.3	2349.0	2324.1	2335.2	2346.2	2340.7	2337.9
22.5°	8800.4	7772.8	4728.5	2756.2	2279.8	2216.0	2188.4	2191.1	2191.1	2180.1	2174.5
25°	9373.8	8041.4	4313.0	2479.2	2146.8	2096.9	2063.7	2052.7	2036.0	2002.7	1997.2
27.5°	10058.1	8326.8	3914.1	2285.3	2041.5	1994.4	1955.7	1927.9	1886.4	1831.1	1825.4
30°	10828.2	8673.0	3576.1	2163.4	1958.5	1911.3	1867.0	1825.4	1764.5	1695.2	1689.7
32.5°	11734.0	9044.3	3329.6	2083.1	1883.6	1833.8	1781.1	1731.3	1664.8	1595.5	1598.3
35°	12814.2	9493.0	3185.6	2027.7	1825.4	1759.0	1700.8	1645.4	1595.5	1534.6	1529.1
37.5°	13986.0	9969.5	3141.2	2000.0	1786.7	1684.2	1617.8	1578.9	1573.4	1537.4	1534.6
40°	15268.6	10534.5	3174.5	1983.4	1745.2	1612.2	1540.2	1531.9	1545.7	1481.9	1484.7
42.5°	16625.9	11204.9	3229.9	1964.0	1686.9	1540.2	1470.9	1470.9	1459.8	1371.1	1371.1
45°	18094.0	11977.7	3285.3	1916.9	1617.8	1468.1	1415.5	1396.2	1349.0	1263.1	1260.3
47.5°	19573.2	12764.4	3326.8	1831.1	1534.6	1407.2	1360.1	1315.8	1246.5	1169.0	1166.2
50°	20977.6	13470.8	3282.6	1703.6	1440.4	1349.0	1299.2	1238.2	1163.4	1110.8	1102.5
52.5°	22232.5	14083.0	3094.2	1554.0	1340.7	1288.1	1243.7	1180.1	1119.1	1063.7	1058.2
55°	23323.9	14578.8	2761.8	1412.8	1252.0	1235.4	1191.2	1110.8	1027.7	980.6	975.1
57.5°	24371.0	14955.6	2346.2	1296.4	1171.8	1177.3	1110.8	1038.7	961.2	911.3	905.8
60°	25764.3	15459.7	1925.2	1188.4	1085.9	1102.5	1030.4	977.8	880.9	817.1	808.8
62.5°	27991.4	16243.6	1529.1	1055.4	986.2	991.7	961.2	897.5	781.2	706.3	700.8
65°	29758.7	15955.6	1205.0	911.3	872.6	880.9	880.9	811.6	687.0	601.1	592.8
67.5°	29559.3	13661.9	961.2	770.1	764.5	770.1	789.5	731.3	609.4	540.2	529.1
70°	27229.6	10866.9	770.1	639.9	664.8	651.0	706.3	667.6	548.5	479.2	470.9
72.5°	22218.6	7828.2	587.2	529.1	509.7	531.9	637.1	601.1	457.0	379.5	371.2
75°	12983.3	4177.3	437.7	418.3	368.4	443.2	565.1	512.5	349.0	279.8	271.4
77.5°	4227.1	1457.0	321.3	307.5	274.2	357.3	482.0	432.1	285.4	221.6	213.3
80°	1132.9	440.4	218.8	202.2	177.3	265.9	382.2	343.5	205.0	144.0	141.2
82.5°	454.3	185.6	127.4	113.6	97.0	182.9	302.0	277.0	152.3	91.4	91.4
85°	146.8	61.0	47.0	36.0	44.3	113.6	180.1	188.4	108.0	47.0	36.0
87.5°	19.4	8.3	8.3	11.1	8.3	19.4	55.4	52.6	30.4	5.5	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)